

# 2020-21 High School Program of Studies 



## GRADUATION REQUIREMENTS

Students must complete 22.5 credits to receive a high school diploma.

1. English Language Arts (ELA) 4 credits
Four years of ELA are required: English I and II, and English III and IV or their equivalents
2. Social Studies 4 credits
World History, U.S. History, one semester of Alaska Studies, one semester of Economics, one semester of United States Government, one semester of a Social Studies elective. Students may waive the .5 credit social studies requirement by completion of Level III of a world language (ASL, Chinese, French, German, Japanese, Latin, Russian, or Spanish);immersion students may waive the .5 social studies requirement by completion of any one high school immersion course in the required immersion continuum.
3. Mathematics ..... 3 credits
Six semesters of Mathematics electives. In order to satisfy the algebra requirements, students must complete one of the following options: Algebra I, semester 1 and 2; or Survey of Algebra 1 and 2; or Credit-by-Choice Challenge by Examination.
4. Sciences ..... 3 creditsThree years (six semesters) of science credit are required. Two semesters must be life science. Two semesters mustbe physical science.
5. Physical Education/Health Education. ..... 1.5 credits
Three semesters of physical/health education are required. A wide variety of courses are offered at each school. Elective credit must be earned to replace a Physical Education/Health Education requirement that is waived.
A) Students may obtain a waiver of 25 of the physical education graduation requirement for each full season of ASAA-sanctioned sports participation within the Anchorage School District.
B) Students may also waive comparable physical education requirements through Credit By Choice, correspondence, or college coursework in Physical Education/Health.
C) A maximum of 1.0 waiver of the physical education requirement is available upon successful completion of 2 years (four semesters) of JROTC.
6. Electives

Fourteen semester courses have not been specified so as to provide students an opportunity to pursue individual educational goals. Electives may include additional courses in Language Arts, Social Studies, Mathematics, Science, Technology, Fine Arts, World Languages, Physical Education and Career Technology.

Total 22.5 credits
a. A student may be considered for graduation when he or she has acquired a minimum of 22.5 credits after grade 8 in required and elective subjects.
b. Seniors entering the ASD for the first time may graduate by meeting requirements of their previous school when the ASD requirements create hardship.

# Anchorage School District High School Program of Studies 

This listing contains all courses approved by the Anchorage School Board as of the date below. Not all courses are simultaneously offered at every high school.

## Revised July 2020

## ASD Statement of Nondiscrimination

The Board is committed to an environment of nondiscrimination on the basis of sex, race, color, religion, gender identity, sexual orientation, national origin, ancestry, age, marital status, changes in marital status, pregnancy, parenthood, physical or mental disability, Vietnam era veteran status, genetic information, good faith reporting to the board on a matter of public concern, or any other unlawful consideration. No person shall, based solely on protected class, be excluded from participation in, or denied the benefits of, any academic or extracurricular program or educational opportunity or service offered by the District. The District will comply with the applicable statutes, regulations, and executive orders adopted by Federal, State and Municipal agencies. The District notes the concurrent applicability of the Individuals with Disabilities Education Act, Title II of the Americans with Disabilities Act and the relevant disability provisions of Alaska law.
Any student or employee who violates this policy will be subject to appropriate disciplinary action.
Inquiries or complaints may be addressed to ASD's Office of Equity and Compliance Senior Director, who also serves as the Title IX and ADA Coordinator, ASD Education Center, 5530 E. Northern Lights Blvd, Anchorage, AK 99504-3135 (907) 742-4132, Equity@asdk12.org., or to any of the following external agencies: Alaska State Commission for Human Rights, Anchorage Equal Rights Commission, Equal Employment Opportunity

Commission, or the Office for Civil Rights-U.S. Department of Education. REVISED: 8/2007, 8/2012, 5/2013, 7/2014, 3/2017, 9/2017, 1/2020
For information contact:
Anchorage School District Education Center
Secondary Education
5530 E. Northern Lights Blvd.
Anchorage, Alaska 99504-3135
(907) 742-4256

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## Anchorage High Schools

Alaska Middle College, 2650 E. Northern Lights . . . 742-2744
AVAIL, 425 C Street . . . . . . . . . . . . . . . . . . . . . . . . . . 742-4930
Bartlett High, 1101 N. Muldoon . . . . . . . . . . . . . . . 742-1800
Benson Secondary, 4515 Campbell Airstrip Road. . . 742-2050
Chugiak High,
16525 Birchwood Loop Rd., Chugiak . . . . . . . . . 742-3050
Dimond High, 2909 W. 88th . . . . . . . . . . . . . . . . . 742-7000
Eagle River High, 8701 Yosemite Drive . . . . . . . . . . 742-2700
East High, 4025 E. Northern Lights Blvd.. . . . . . . . . 742-2100
Family Partnership Charter School,
401 E. Fireweed Lane, Ste. 100 . . . . . . . . . . . . . . . 742-3700
Frontier Charter School,
400 W. Northern Lights Blvd, Ste 4 . . . . . . . . . . . . . 742-1180
Highland Academy, 5530 E. Northern Lights. . . . . . 742-1700
PAIDEIA Cooperative School, 1405 E St. . . . . . . . . 742-4164
Polaris K-12 School, 6200 Ashwood St. . . . . . . . . . . 742-8700
King Tech High, 2650 E. Northern Lights . . . . . . . . 742-8900
SAVE, 410 E. 56th Ave. . . . . . . . . . . . . . . . . . . . . . . . . 742-1250
SEARCH, 4515 Campbell Airstrip Road . . . . . . . . . 742-2050
Service High, 5577 Abbott Road. . . . . . . . . . . . . . . . 742-8100
South Anchorage High, 13400 Elmore Rd. . . . . . . . 742-6200
Steller Secondary School, 2508 Blueberry . . . . . . . . 742-4950
West High, 1700 Hillcrest Drive . . . . . . . . . . . . . . . 742-2500

## High School Alternative Programs/ Schools

The district has a number of special purpose programs for students with special interests and needs and where individualization is emphasized. Students earn credits and meet district requirements in a variety of ways and these programs are characterized by curricular innovation along with basic skills development. A brief description is included here. If you have any questions, check with your counselor.

## Alaska Middle College

Alaska Middle College School (AMCS) is Alaska's first dual-enrollment high school in which students are concurrently enrolled in both high school and college courses. AMCS students have the opportunity to complete their high school graduation requirements while accruing college credits toward a wide array of degree programs. Some students may be able to earn their Associates Degree by the time they graduate high school depending on course load. College courses are taught by UAA faculty, and ASD teachers provide individualized academic support to ensure students are successful in their college courses as they undergo an early transition to college. College courses become a part of a student's college transcript as well as their ASD transcript.

Alaska Middle College is located on UAA's main campus where students have access to college professors, high school teachers, and support staff. Additionally, the Alaska Native Science and Engineering Program (ANSEP) is located on main campus and students attending that program have access to courses at AMCS in order to fulfill their requirements.

## ASD Virtual

ASD Virtual is the Anchorage School District's online pro-
gram. ASD Virtual provides high school students with opportunities to earn credit online. Through ASD Virtual's online classes, students have access to courses that may not be available at their school, that allow students to overcome scheduling challenges, and that meet student needs. Online courses may be taken as original course attempt, to replace a grade, or for academic advancement.

## AVAIL

The Anchorage Vocational Academic Institute of Learning is an alternative high school program developed for students who have dropped out of traditional schools. The school's purpose is well matched with the definition of the word "avail," which means "to be of use or help." AVAIL is designed to help students return to the educational system and obtain skills for employment with an emphasis on earning a high school diploma.

## Bartlett High, Cook Inlet Tribal Council (CITC)

Cook Inlet Tribal Council (CITC) provides a spectrum of core content academic classes at Bartlett High School for Alaska Native and American Indian students. CITC teachers emphasize high expectations for academic excellence while providing students with an encouraging environment in which youth can fulfill their potential through education. CITC promotes the development of self-confidence, creativity, leadership, and traditional values by integrating hands-on, culturally responsive content and innovative practices into their academic classes and after-school activities.

## Bartlett Medical Academy

The Medical Academy at Bartlett will prepare students to enter the work force or college with preparation in various facets of the medical field. Classes in Anatomy, Physiology, Forensics, Medical Terminology, Health Occupations, and Sports Injury Management will be available to students through the academy. Students do internships and shadow professionals at the Veterans Hospital next to the Bartlett campus for real life experience.

## Bartlett, Integrated Honors High School (IHHS)

The Integrated Honors Program is a college-preparatory program designed to emphasize academic writing and analysis of classic literature. Beginning in 9th grade, students will take their Honors Language Arts course and Honors History course with a designated "Honor Team" comprised of one Honors Language Arts teacher and one Honors/AP History teacher for each grade level. Experience with the Seminar Method will begin in 9 th grade and continue through the program. Students will be introduced the Honors Team in 9th grade and continue with the honors teams through graduation. "Cross connections are so important to the student's learning experience, and these connections can be found throughout the curriculum." In an effort to enhance student learning, the study of literature and history in all honors designated courses will be integrated and team-taught.

## Benny Benson

The SAVE II Program provides specialized high school programs for students who are in 11th and 12th grade and are behind in credit or have already dropped out of high school. Students
must have a referral from a counselor or administrator. Final recommendation for acceptance into these programs is determined after a student and parent interview is conducted. These programs combine teacher-directed instruction, class assignments, and individualized contracts for the students' academic development. Students are evaluated on a monthly system where a minimum of academic progress is expected. Students are required to hold a part time job for a minimum of 20 hours per week and/or attend a class at King Tech High to fulfill their vocational expectation. Work experience and vocational training are counted as elective credit and serve as half of the student's educational day. Students in these programs must meet the same requirements for state and district standards as the students attending traditional high schools in the Anchorage School district.

## Charter Schools

Charter school students, with principal approval, may take courses at comprehensive high schools or King Tech High.

## Chugiak High School Spanish Immersion Program

The district's K-12 Japanese, Russian and Spanish language immersion programs have designated feeder middle and high schools to ensure that students continue their immersion experience in a seamless, articulated sequence of higher level courses. Chugiak High School is the continuation of the Spanish immersion program from Chugiak Elementary and Mirror Lake Middle schools. In the high school program there is a four-year sequence of upper-level courses designed to increase students' language skills while learning through content. Spanish courses include Vistas Juveniles del Mundo Hispano, Perspectivas Literarias, Estudios Latinoamericanos, and Advanced Placement Spanish Language. High school immersion courses are designed to be rigorous and challenging for students while preparing them for upper division university coursework.

## Chugiak, World Discovery Seminar Program (WDS)

The World Discovery Seminar Program is an alternative, smaller learning community and official ASD school-within-aschool that serves students at Chugiak High School. Rather than relying on textbooks, the program employs the Paideia methodology, a Socratic-based learning technique focusing on in-depth understanding of primary texts. With the teacher facilitating the discovery learning process, students explore, through writing and discussion, real life questions about literary and historical texts. In the Paideia seminar process, verbal and written discussion of the texts is emphasized over answering "end of chapter" questions.

Emphasis is placed on deeper learning, rather than general content. The basic concept is to assist young people to become avid, self-motivated learners. Interesting projects and hands-on activities are also fundamental to the class work. Self-expression is highlighted through the many varied activities comprising the World Discovery Seminar approach. Class dialogue allows the sharing of various opinions and experiences, which encourages students to draw their own conclusions. This helps all students develop a greater, more profound understanding of literature, history, science, mathematics and philosophy.

## Crossroads

Crossroads located at Benny Benson, is the Anchorage School District's school for pregnant and parenting teens. Crossroads provides a supportive instructional environment which allows students to continue their education while pregnant and/or parenting. A complete program of instruction is provided with an emphasis on core academics. The program utilizes online instruction in conjunction with traditional coursework to meet the academic needs of students. Specialized curriculum related to being a pregnant and/or parenting teen is offered and community support contacts are available for students. The staff at Crossroads is committed to providing quality instruction in an environment that fosters regular school attendance and student responsibility for learning.

## Dimond High School Japanese Immersion Program

The district's K-12 Japanese, Russian and Spanish language immersion programs have designated feeder middle and high schools to ensure that students continue their immersion experience in a seamless, articulated sequence of higher level courses. Dimond High School is the continuation of the Japanese immersion program from Sand Lake Elementary and Mears Middle schools. The Japanese for Fluent Speakers course sequence includes an "Honors" course in which students are partnered with members of the local Japanese community in an "adopt-a-student" program. Advanced Placement Japanese Language and Culture is part of the course offerings in the High School Japanese Immersion sequence. High school immersion courses are designed to be rigorous and challenging for students while preparing them for upper division university coursework.

## Dimond High School Engineering Academy

The DHS Engineering Academy is designed to prepare students for a two-year or a four-year engineering degree program. Five engineering courses follow the Project Lead the Way (PLTW) curriculum that may qualify for articulated agreements with universities in Alaska and across the U. S. Engineering Academy courses are project-based. Students are connected with engineering professors at UAA and with engineers in businesses that serve on the Engineering Academy Advisory Council.

Students may enter the Engineering Academy as freshmen and continue the four-year sequence or they may take individual courses when space is available.

## East High, Elitnaurvik (EWE)

Elitnaurvik-Within-East is designed specifically for Alaska Native and American Indian students. Elitnaurvik in Yupik means "a place to learn."

EWE incorporates Native values and issues, and successfully addresses different learning styles in its activities, course offerings, and work components. EWE enjoys widespread support in the community. The primary emphasis is on building leadership through group participation, volunteerism, and empowering students to embrace their cultural heritage. Elitnaurvik provides culturally-based education, counseling, tutoring, and after-school activities.

## East High, School-Within-A-School (SWS)

School within a school is a cohesive learning community within East Anchorage High School which provides a unique, enhanced learning experience for self-directed students with an emphasis on independent thinking, integrated learning, and community development. SWS accomplishes this through a partnership of skilled, innovative teachers and staff, a small cohesive student population, and parental support. SWS offers a wide range of core and elective classes, including advanced placement and self-directed study classes. Students take world language, physical education, and vocational and fine arts offerings from the wide array offered in East High School. SWS students participate in East High activities that include sports, clubs, drama, dance, music, and student government. SWS program has 240 students, in addition to the world exchange students and fills through the district lottery system. Siblings in SWS and students in the East High attendance zone will have preference.

## Family Partnership Charter School

Family Partnership Charter School is a K-12 homeschool/ correspondence program that focuses on personalized learning options, including flexible curriculum, online/distance ed., AP, university/college, and small group enrichment courses, in a partnership with with parents, vendors, and tutors. Our students also have the ability flex their school year, week, and school day to accommodate activities like sports training and travel, fine arts events, and work.

## Frontier Charter School

Frontier Charter School is a K-12 correspondence study program that serves a multitude of students with diverse interests and needs. Individuals interested in a traditional homeschool education, pursuing advanced studies, behind in high school credits, or those with special needs as well as student-athletes that seek a flexible schedule, those with an interest in educational travel, and individuals that want to take online/correspondence courses all find valued resources and support. Frontier's program allows families to use public education funds to give students assess to a tremendous learning environment. Frontier students have the ability to take classes at UAA and receive dual credit, attend classes in other ASD schools, and take online courses from a wide variety of colleges and universities. Frontier students benefit from a customized daily schedule, the flexibility of a 12 month school year, and the personalized support of their own academic advisor.

## Highland Academy

Highland Academy is a rigorous 6th-12th grade competen-cy-based learning environment that promotes mastery learning across the curriculum. Students are placed at ability level in Language Arts and Math in order to meet specific needs. Teachers plan integrated projects in combination with traditional direct instruction approaches, using a variety of resources. Skills learned in one content area can often lead to standards met in another. We emphasize social-emotional learning, community-based and competencey-based learning, and growth mindset through our blended learning program. When students graduate from Highland, they are prepared for the next step, whether that's
jumping into a career or preparing for college We have a strong advisory program that supports academic, social, and emotional growth and students regularly present a reflection of their learning experiences throughout their time at Highland Academy.

## King Tech High School (KTHS)

The Martin Luther King Jr. Tech High School offers career, vocational and technical training in more than 25 occupations for students primarily in grades 11-12. KTHS courses provide academic and elective credit, and some courses offer concurrent college credit through Tech Prep or credit toward post-secondary training programs such as apprenticeships. All KTHS courses are guided by an Advisory Council made up of experts from industry and post-secondary education, including apprenticeships and trade organizations. Courses at KTHS are delivered through hands-on learning with the latest technology and equipment. At KTHS students learn skills that will help them in post-secondary education, in a trade organization training program or going directly to work. Our students tell us that they are better prepared for life after high school because of the skills and knowledge gained through their KTHS classes.

Students spend the equivalent of three periods at KTHS and earn 1.5 credits for each semester class. Bus transportation is provided from students' home schools or they may drive. Students who meet requirements in their second semester may earn credit by doing on-the-job training with mentors throughout the city. Students may also earn credit toward graduation for working a part-time job that relates directly to their KTHS course. Please note that KTHS courses, at this time, do not meet NCAA Division I or Division II entry guidelines.

## McLaughlin

McLaughlin Youth Center provides short-term and longterm residential care for institutionalized delinquent adolescents throughout the State of Alaska. The Anchorage School District administers a comprehensive educational program for McLaughlin residents. Students receive instruction in the core academic areas, as well as physical education, technology, and vocational studies.

## P.A.I.D.E.I.A. Cooperative School

P.A.I.D.E.I.A. Cooperative School is a K-12 culture of academic innovation and adaptation, offering a personalized, customizable and blended learning plan for passion driven students and families. Students may take up to three classes at local ASD schools, attend small on-site core courses at P.A.I.D.E.I.A. and register for local university courses Staff assists students in coordinating business partnerships, internships and mentorships. Teachers work collaboratively with parents and colleagues to design custom programs utilizing hundreds of online class options and several pre-approved, pre-arranged credit options for family-developed plans and life experiences. The program is enhanced with exploratories, field trips and customized cooperative groups.

## Polaris K-12 School

Polaris K-12 School is Anchorage's only brick and mortar
school to have all grade levels from kindergarten to the senior year of high school. As an ASD alternative program, we differ in educational philosophy, grade level organization, student evaluation, curriculum, instructional methods, and student involvement. Our program is characterized by curricular innovation along with basic skills development and allows for an integrated curriculum and multi-age group learning based on student interests, needs, and developmental levels. Students are participants in creating a rigorous curriculum that exposes them to 21st century skills, learning traditional academic standards, developing civic responsibilities and policies, while also meeting their personal educational interests. Our program is for students, parents/guardians and teachers who want an emphasis on self-directed learning and active participation in community.

## SAVE

SAVE provides specialized high school programs for students who are in 11th and 12th grade and are behind in credit or have already dropped out of high school. SAVE accepts student enrollments year-round. Applications may be picked up at your counselor's office or downloaded online. Walk-ins are welcome to complete application packet and schedule an appointment for interview. Final recommendation for acceptance into SAVE is determined after completed application, student and parent interview and all required documents (immunization record, transcript, etc.) are turned into the front office. SAVE High School offers a personalized education path for each of our students. Instead of the traditional one-size-fits-all classroom, we seek to motivate and encourage students to be independent learners. Our blended-learning model provides teacher-directed instruction, small group learning opportunities and/or online academic assignments. Students are evaluated monthly and expected to demonstrate academic and vocational progress. As a result, each student receives individualized instruction and support from our teachers and staff. This personal attention and guidance are often the crucial ingredient to student success. Students are required to hold a part time job or volunteer for a minimum of 20 hours per week and/or attend a class at King Tech High to fulfill their vocational expectation. Work experience and vocational training are counted as elective credit and serve as half of the student's educational day. The requirements for graduation from SAVE High School are the same as the requirements for all secondary high schools in the Anchorage School District. Upon completion students receive an ASD high school diploma

## SEARCH at Benny Benson

The SEARCH program is for ninth and tenth grade students who have been unsuccessful at their home school due to poor attendance, poor academics, social issues, or limited behavioral situations. Students are admitted at the beginning of each quarter and are required to stay until the end of the semester. In the SEARCH program academic and socialization skills are incorporated into the curriculum. The academic focus is based on the district grade level expectations. Social and emotional learning skills are embraced and woven into all aspects of the program. The social emotional learning aspect of the curriculum is the process through which students learn to recognize and manage emotions,
make good decisions, behave ethically and responsibly, develop positive relationships and avoid negative behavior.

## Service High, Biomedical Career Academy (BCA)

The Biomedical Career Academy at Service aims to prepare students for a successful career in the healthcare industry. Classes within the BCA focus heavily on rigorous academics within a traditional curriculum, integrating healthcare and medically based activities within the classroom and community. Students have the option of preparing themselves for a position directly after high school within a healthcare setting and/or to focus on preparation for a traditional college degree.

All students are required to be members of HOSA (Health Occupation Students of America-a nationally recognized student healthcare organization) and will also be obtaining current firstaid/CPR certification. Students are also required to take Project Lead The Way Principals of Biomedical Science and Human Body Systems in the appropriate progression. Seniors, upon the successful completion of prerequisites, will take a capstone class which focuses on individual research and hands-on learning.

The BCA students will be interacting with our business partners in the community thus will be held to high standards of professional conduct and communication.

## Service High, German Immersion Program

The district's K-12 Japanese, Russian, and Spanish language immersion programs have designated feeder middle and high schools to ensure that students continue their immersion experience in a seamless, articulated sequence of higher level courses. Service High School offers the advanced German immersion courses for students who have attended Rilke Schule's K-8 German immersion program. In the high school program there is a four-year sequence of upper-level courses designed to increase students' language skills while learning through content. German courses include: Contemporary German Youth and Culture; Perspectives on German Culture through Literature, Film, and Media; Germany: Past and Present; and Advanced Placement German Language. High School immersion courses are designed to be rigorous and challenging for students while preparing them for upper-level university coursework.

## Service High, The Leadership Academy

The Leadership Academy at Service High School is centered around the Navy JROTC program and focuses on academic excellence, community service and academic/practical leadership training. Each year of participation in the Leadership Academy counts for one elective credit. Additionally, for each of the first two years of participation the student will have one-half credit of Physical Education credit waived. An in-house mentoring and tutoring program is provided for all Leadership Academy. The Leadership Academy prides itself on leading technology integration at Service High, making use of the latest in classroom technologies.

## Service High, The Seminar School (TSS)

The Seminar School serves approximately 250 students and is characterized by the use of the Socratic seminar method, a strong
sense of community and a learning environment that emphasizes independence, trust, personal responsibility and an open mind. The TSS curriculum is built on the consideration of classic texts that span the history and breadth of human experience. Students of the Seminar School are diverse in character and ability and work together in a multi-grade level setting (9-12) for a portion of their classes. Students can fulfill all language arts and social studies requirements along with some science and math requirements through TSS classes.

## Steller Secondary School

Steller is a school that provides students with opportunities to be self-directed, independent and responsible learners. Steller offers a personalized education for grades 7 through 12 where students can define their own educational goals with the help of parents and staff. Steller Secondary School fosters an educational environment based on student responsibility and freedom.

Steller classes focus on educational process and provide opportunities for the development of leadership skills, problem solving proficiency, self-assessment abilities, decision-making skills and goal setting. Self-directed learning is a vital part of the Steller program. Active involvement within both the Steller community and the community of Anchorage is also important. Steller follows the ASD guidelines for educational content and graduation requirements.

## West High, Anchor Media Production (AMP)

The Broadcast-Journalism Program at West Anchorage High School prepares students to enter the Journalism and Production Technologies pathways and the Visual Arts pathway: emphasis is on core skills needed to communicate a message for any type of organization/endeavor (be it creative, commercial, or personal) utilizing multimedia approaches including YouTube, Adobe Premier and Suite.

## West High, Highly Gifted Program (HG)

The Highly Gifted Program at West High School is designed for the 9 th -10 th grade student whose educational needs cannot be met within the Honors Programs at the high school level. The first two years of the program offers a smaller learning community through clustered core classes. The emphasis on critical thinking and writing skills encourages depth and breadth of knowledge in all content areas.

## West High, Medical Academy

The Medical Academy at West Anchorage High School prepares students to enter healthcare professions or college through preparation in science classes: Anatomy \& Physiology; Biology; and Chemistry as well as medical classes: Health Occupation Essentials; Medical Terminology; Introduction to Pharmacy; First Aid; Emergency Trauma Technician; and Essentials of Athletic Injury Management. Students successfully completing their coursework and application, graduate with the West Anchorage High School, Medical Cord.

## West High, Pre-IB

Students in 9th and 10th grade who wish to prepare themselves for the Diploma Program are encouraged to study the
following courses: honors English and honors social studies, biology/chemistry, algebra/geometry or higher, a world language, and the arts.

## West High, International Baccalaureate (IB)

The International Baccalaureate (IB) Diploma Program (DP) at West Anchorage High School encourages creative inquiry and critical thinking while helping students develop a global perspective. IB is a challenging two-year (11th-12th) pre-college course of studies in the tradition of the liberal arts. Diploma candidates must complete studies in six subject areas: English, a world language, history, science, math, and the arts. Additionally, students undertake an independent research project; participate in creative, physical, and social service activities; and take a class called Theory of Knowledge. The IB DP encourages students to develop independence of thought, creativity, inquiry skills, open-mindedness, and an ability to think critically and reflectively. West High is the only IB program in the Anchorage School District.

## West High, Process Technology-Engineering

The West Anchorage High School, Process TechnologyEngineering program is designed to prepare students for a twoyear or a four-year process technology or engineering degree program. Students are introduced to Alaska's physical science based industries through Geology and Process Technology (designed to prepare students for a technical apprenticeship or degree program. The Introduction to Engineering Design course and the Introduction to Digital Electronics follow the Project Lead the Way (PLTW) curriculum exposing students to design processes.

## West High, School-Business Partnership

The School-Business Partnership Program at West Anchorage High School prepares students to transition from school to work or school to college. Students develop career, business, service learning and leadership skills while working with the school business partners (interacting with the community in planning and directing fund-raisers, service learning projects, and board meetings). Students have the option for on-the-job training throughout the community. The School-Business Partnership class supports West Anchorage High School Career and Technical Education (CTE) programs transitioning students from school to active learning in the workplace.

## West High School Language Immersion Programs

The district's K-12 Japanese, Russian and Spanish language immersion programs have designated feeder middle and high schools to ensure that students continue their immersion experience in a seamless, articulated sequence of higher level courses. West High School is the continuation of the Spanish two-way immersion program from Government Hill Elementary and Romig Middle schools. The two-way immersion program is the only one of its kind in Alaska. Students in this program are both English speakers and native Spanish-speakers who together become bilingual and biliterate in both Spanish and English. Native Spanish-speaking students and heritage Spanish speakers with literacy skills in Spanish are encouraged to enroll in this Spanish two-way immersion program. In the high school program there is a four-year sequence of upper-level courses designed
to increase students' language skills while learning through content. Spanish courses include Vistas Juveniles del Mundo Hispano, Perspectivas Literarias, Estudios Latinoamericanos, and Advanced Placement Spanish Language. High school immersion courses are designed to be rigorous and challenging for students while preparing them for upper-division university coursework.

West High School is also the continuation of the Russian immersion program from Turnagain Elementary and Romig Middle schools. In the high school program there is a fouryear sequence of upper-level courses designed to increase students' language skills while learning through content. Courses include Sovremenaya Molodyoj' i kul'tura (Contemporary Youth and Culture), Vzgla'd na Rossiju cherez literaturu i SMI (Perspectives on Russia through Literature and Media), Rossia i Alyska: Istoricheskiye svyazi (Russia and Alaska: Historical Connections), and Advanced Placement Russian Language. High school immersion courses are designed to be rigorous and challenging for students while preparing them for upper division university coursework

## Non-resident tuition

By state law, all non-resident students attending schools of this district shall pay in advance the regular school tuition rate. (AS 9.030) This law pertains to students whose parents are not residents of the Municipality of Anchorage and who are not in the custody of a district resident. (ASD Policy Section 431.21) For more information about non-resident tuition, please contact the school principal.

## About scheduling

Scheduling for the year starts in February with juniors and continues with sophomores, freshmen and current 8 th graders.

A school's master schedule is developed by taking all student course requests (from a list of all approved ASD courses) and creating sections to accommodate the maximum number of student requests.

Some requested courses will not have sufficient demand to permit the class to be offered so students must be prepared with alternate requests.

To assure success in scheduling, each student and parent can:

1. Explore careers with a counselor and identify education needs.
2. Plan a four-year program (grades $9-12$ ) that is based on tentative career choices.
3. Select courses carefully with a counselor. Parents are encouraged to consult a counselor before helping students select courses.
a. Be fully aware of course content for each course being considered.
b. Know the graduation requirements and make a check list for meeting those requirements.
c. Be aware of the entrance requirements at potential post-secondary schools and NCAA requirements if athletic participation is contemplated at a Division I or II college.
d. Have an alternative plan before coming to scheduling.

## Alaska Performance Scholarship

The Alaska Performance Scholarship provides an opportunity
for Alaska high school students to earn a scholarship to help cover the cost of an Alaska postsecondary education. Alaska high school students who take a more rigorous curriculum, get good grades, and score well on college placement or work ready exams, can earn an Alaska Performance Scholarship to qualified Alaska colleges, universities, or vocational/technical programs.

## Course withdrawal procedures

The following are the procedures regarding withdrawing or changing a course:

1. Once students have selected their courses, there will be no schedule changes, including withdrawals, after the beginning of the grading period except as determined by the principal or his/her designee.
2. Any student whose absence is unauthorized for the first three days of a course may be withdrawn from the course and will need to reschedule.
3. No record shall be kept on a student who withdraws from a course with the principal's permission prior to the end of the 10th day of the course. Students who, after 10 days in a course, withdraw with the principal's permission will have WF (withdraw failing) recorded on their transcripts. The WF counts in the calculation of the Grade Point Average (GPA).

## Grading procedures

Reporting periods are nine weeks in length although courses are taken by semester. In high school, the first report or grade is a notice of a student's progress up to the middle of the semester. The final semester grade is based on the total amount of contribution a student has made to the course during the entire semester and is the grade recorded on the transcript. In high school, if a student fails one semester of a full-year course and successfully completes the other semester of the same course, credit is granted for the semester successfully completed. Physical education classes are an exception because they are nine weeks in length and the quarter grade is recorded on the transcript.

## Grading System

" $A$ " This mark indicates the student has done work in quality and quantity far in excess of the standards set forth for a satisfactory grade in the course.
" $\mathbf{B}$ " This mark indicates that the student is doing work in quality and quantity above the standards set forth for a passing grade in the course.
"C" This mark is a satisfactory passing grade. It indicates that the student is acquiring the necessary information to proceed in the subject. He/she is meeting the standards set for a passing grade in the course.
"D" This mark indicates that the student is not effectively mastering the work assigned but has sufficient understanding of the subject to justify the opinion that more growth will result from advancement than from repetition of the course.
" F " Insufficient progress in the subject to merit granting of credit in the course.
"WF" Student has been withdrawn from the course "failing."
"J" Audit- Principal approval is required. Indicates a stu-
dent is auditing a course for his/her benefit. This does not count towards credit for graduation and must be approved prior to the 10th day of the course. Students are still required to complete course work.

## Weighted grades

The Anchorage School Board has approved weighted grades for Advanced Placement (AP) and higher level International Baccalaureate (IB) courses. While an " $A$ " is normally worth four points in calculating a student's grade point average (GPA), a weighted " $A$ " is worth five points; a weighted " $B$ " is worth four points; a weighted " C " is worth three points; a weighted " D " is worth two points and an " F " is worth no points. The Anchorage School District does not offer weighted grades for college course work.

## Transcripts

High school transcripts are legal documents and may not be amended except to correct errors and enter replacement grades for repeated courses once courses and grades have been posted to the transcript. Prior to requesting inclusion of Credit by Choice grades, including high school credit for courses taken during middle school, consider the effect these non-weighted grades will have on class rank.

## Honor roll

High school students earning a 3.5 grade average will be eligible for the honor roll. Any "F" or "D" grade will disqualify a student for that grading period. A high school student must be enrolled in a minimum of four subjects and grades in all courses will be considered.

## Anchorage School District academic letter

To earn an ASD academic letter, any student who has fulfilled the criteria for Honor Roll in two consecutive semesters will be awarded an Academic Letter. These semesters need not fall in order of fall and spring semester, but may be considered consecutive if the GPA is earned in the spring semester and the following fall semester. Any semester the student meets the Honor Roll criteria subsequent to the awarding of the Academic Letter and earns a 3.5 to 4.0 , a silver star is awarded. Any semester the student meets the Honor Roll criteria subsequent to the awarding of the Academic Letter and earns a 4.0 or higher, a gold star is awarded.

## Honors group

To give recognition for high scholastic achievement, the Anchorage School District has established standards for the selection of members of an Honors Group. A student who has a cumulative GPA of 3.5 by the semester prior to graduation will be eligible for membership in the Honors Group.

Honors graduates will be given recognition at graduation and on their transcript in the following manner:

1. Students with a GPA of 3.50 to less than 3.76 will be designated as having graduated Cum Laude;
2. Students with a GPA of 3.76 to 4.0 will be designated as having graduated Magna Cum Laude;
3. Students with a GPA of greater than 4.0 will be designated as having graduated Summa Cum Laude.

## High school credit for middle school students

See "Program No. 7"

## Credit By Choice program (CBC)

The Credit by Choice Program is designed to give students the opportunity to choose enriching learning experiences tailored to their personal educational needs and to have them recorded on their high school transcript. This program is open to high school students currently enrolled in the Anchorage School District.

An overview of each program option is given below. Details of requirements for each program are attached. While the Curriculum Assistant Principal and Counselors can respond to questions, it is the RESPONSIBILITY OF THE STUDENT TO WORK INDEPENDENTLY TO COMPLETE THE APPLICATION AND CARRY OUT A PROGRAM ACCORDING TO THE PRESCRIBED GUIDELINES.

## General Guidelines

1. Students proposing a Credit by Choice (CBC) Program must have prior written approval of their parents and the Principal.
2. A certificated staff person must sponsor and/or supervise the student's program. In the case of the waiver, this will be the Principal.
3. ASD is the accrediting institution and sets standards for issuing credit/waivers. ASD is not the sponsoring agency for off-campus programs and is not responsible for the student's personal or financial liability. Program expense is the responsibility of the individual.
4. CBC courses will be titled as such on the student's transcript. Programs 1 (Educational Travel) and 6 (Community Service/Field Study) may only be taken for elective credit/waiver. Specific curriculum area credit will be recorded for Programs 2 (Correspondence Course), 3 (College Course Work), 4 (Early College Admissions Program), and 5 (Credit by Examination). Credit by Examination may not be done for Physical Education credit.
5. Since CBC registration is recorded only upon program completion, CBC is not a course that can be included for calculating eligibility for full-time student status.
6. The grade received will be incorporated into the student's high school grade point average (GPA) and will be counted to determine class rank and valedictorian. When computing valedictorian status, the ratio of weighted advanced placement to regular graded classes is significant.

## Program No. 1 - Educational Travel

Credit may be earned for a planned learning experience gained through participation in a travel/study tour. The Curriculum

Assistant Principal must approve both the specific tour and teacher/sponsor before students may apply. Questions concerning specific credit requirements during travel/study tours should be directed to the teacher/sponsor.

- A three-week tour program is eligible for 0.5 unit of credit and a six-week program may earn 1.0 unit of credit.
- Travel supervisors must submit a completed application with supporting materials to the Curriculum Assistant Principal for approval by April 15. Proposals must outline the type of educational travel, travel supervisor's name, past experience with student travel, name of sponsoring company/affiliation, dates of departure and return, estimated number of student participants, goals and objectives, proposed itinerary, evaluation criteria, information on liability/medical coverage for participants, parent information forms and copies of releases. Forward a copy of the approved "Request for Out-Of-District Travel" (form J available from the Activities Office), taking care to specify names of sponsors/chaperones.
- A student desiring credit for approved educational travel must complete the Credit by Choice application and submit it to the Curriculum Assistant Principal in advance of the trip. Upon completion of the travel, the supervisor must provide the Curriculum Assistant Principal with grade reports and submit supporting grade book and legend to the Registrar.


## Program No. 2 - Correspondence Course

The purpose of the correspondence is to meet special needs of students as approved by the school administration. Due consideration will be given to the student's record in completing independent studies. To be approved, correspondence programs must be accredited. Courses must be proctored by certificated staff.

- As of August 2008, approved correspondence programs include: University of Nebraska, University of North Dakota and Brigham Young University, and the Native Heritage Center Advanced Academics. Others may be considered upon request. Application for approval of other programs may be done through the Curriculum Assistant Principal.
- Correspondence courses may be used for both makeup and acceleration.
- A copy of the correspondence school application must accompany the Credit by Choice application and must be received by the Curriculum Assistant Principal prior to the beginning of the course.
- Upon completion, the student must submit proof of grade to the Curriculum Assistant Principal.


## Program No. 3 - College Course Work

Credits earned through accredited institutions of higher learning can fulfill credits needed for graduation from ASD. A 1-2 credit hour university course equates to .5 ASD units; a 3-4 credit hour university course equates to 1.0 ASD units; and a $5-6$ credit hour university course equates 1.5 ASD units. It is the student's responsibility to submit university transcripts to his or her home school.

## APU

The APU Early Honors Program will provide admitted and qualified students a two-semester program of study that includes
college level coursework which will at the same time satisfy high school graduation requirements. In consultation with the Director of the Early Honors Program and the local school counselor, the student will develop an Individual Learning Plan to assure that district graduation requirements will be met. Students will be concurrently enrolled in their home high schools. Because schools will continue to receive federal and state funding for these students, students are not eligible for federal financial aid at Alaska Pacific University, although they may be eligible for uni-versity-granted financial aid, based on need.

## Program No. 4-Early College Admissions Program

This program would allow outstanding students with a grade point average of 3.5 or above to leave high school for college work prior to having the time and credits for graduation. The student would have the option of receiving his/her high school diploma after successfully completing the first year of college. ASD graduation requirements must be met in order to receive a high school diploma. The program would serve the student who has made definite plans for master and doctoral work.

- To be considered, a student must have maintained at least a 3.5 GPA during the first three years of high school and all required grade level courses must have been completed prior to application for this Credit by Choice program.
- Tentative acceptance by a college or university must be in evidence. It is the student's responsibility to determine whether college coursework accepted by the Anchorage School District will also be accepted for credit by the college.
- Upon completion of 24 undergraduate semester hours of credit at the college level, the student must furnish a transcript to the Curriculum Assistant Principal so that a high school diploma may be granted.


## Program No. 5-Credit by Examination (Course Challenge)

Credit by Examination (Course Challenge) (AS 14.03.073 Sections 2 and 3 of the Alaska Safe Children's Act) is an opportunity for students in grades 9-12 to receive credit through a testing process. Assessments determined by the Curriculum Coordinators will be used in most instances to challenge courses in mathematics, language arts, science, social studies, and world languages by demonstrating mastery of course material.

- The student can apply to challenge a course through examination in August or December or as individually scheduled. The course challenge request must be submitted before the course has begins for the student.
- Upon receipt of an approved application for Credit by Examination (Course Challenge), the Principal (or designee) will appoint an examiner.
- The examiner will pull the assessment off the ASD Assessment Library whenever possible or request an assessment from the content Curriculum Coordinator.
- The examiner is expected to proctor the test, notify the Principal (or designee) of the results, and submit the test materials to the Registrar.
- A ninety-percent $(90 \%)$ score is required to receive an A .

An eighty-percent (80\%) score is required to receive a B. Less than $80 \%$ will not receive a credit.

- A student cannot be granted Credit by Examination for a course in which he or she has previously earned credit nor may he or she earn credit for a prerequisite course if they are presently enrolled in or have previously earned credit in an advanced course.
- If credit is denied, a student may not reapply for a Course Challenge for the same course.
- Only approved ASD courses can be challenged.
- No fee is attached to the course challenge.


## Program No. 6 - Community Service and Field Study/ Physical Education Waiver

Credit may be earned through a planned community service program that provides learning experiences in the community.

Students may also propose field studies in the community, such as a research project using the community or a unique educational opportunity, including physical education activities, available only in the field. One hundred twenty (120) hours of acceptable service will earn 0.5 unit of credit/waiver. Program approval may be done at individual school sites, but pre-approved District programs include the following:

- Anchorage Youth Court
- Johns Hopkins University Institute for the Academic Advancement of Youth
- LEAP (Learning Enrichment Adventure Program)
- Western Alaska Council/Boy Scouts of America Explorer Program
- Allegro
- Peer Education Teen Trainers
- RARE-T (Reduce AIDS Risk in Teens) Peer Education
- Anchorage Youth Symphony (pass/fail only, therefore does not count in GPA calculation)
- Alaska Prudential Youth Leadership Institute (plus additional hours to total 120)
- Alaska Native Heritage Center courses
- Cook Inlet Tribal Council
- Big Brothers/Big Sisters, High School Bigs Program
- Alaska Theatre of Youth-Summer Conservatory
- Going Places - Alaska Tourism Curriculum
- Trio Talent Search Upward Bound Program/Upward Bound Summer Program
- Youth Employment in Parks \& Recreation Program
- Outdoor Experience, Writing \& Leadership (Puqigtut)
- South Central Foundation RAISE Intern Program
- Shiloh Community Development, Inc.

Concordia Language Institute is independently accredited by North Central Association of Schools as an intensive world language experience for high school students. Transcripts from Concordia should be sent to the home school for inclusion of credit on the student's transcript.

Physical Education programs will be approved on a case-bycase basis where the program covers four of the six recognized components of fitness. One hundred twenty (120) hours of acceptable activity/records will earn an equivalent 0.5 waiver.

Student proposals must include the following information:
student name, coach's name and contact number, description of coach's qualifications, a detailed training outline with goals and objectives from the coach including a description of how four of the six components of fitness are addressed. Attach any available evidence of equivalence to ASD approved high school courses.

- Student desiring a physical education waiver must also submit a journal documenting their work-outs.
- At 60 hours, the journal must be reviewed and signed by the Curriculum Assistant Principal or the Physical Education Department Chairperson.


## Program No. 7 - High School Credit for Middle School Courses

MIDDLE SCHOOL MATH: Students may request middle school course work in math (Algebra I or higher) to be added to their high school transcript any time after their ninth grade year. Upon approval, the credit and grade will be added on to the transcript to the first semester of the ninth grade year. Once entered on a high school transcript, grades will not be removed from this legal document.
${ }^{* *}$ Due to the COVID-19 pandemic in spring of 2020, ASD will allow for seventh/eighth grade students in the 2019-20 school year to use the average of their first, second and third quarter grades if they choose to opt into this incentive credit option. This would be valid throughout their entire high school career (through spring of 2024).

MIDDLE SCHOOL WORLD LANGUAGE: Research indicates that the study of another language is most effectively accomplished if it begins at an early age, is sequential and continues for a long term without interruption. To encourage more students to begin language study in the middle school and continue into Level II as ninth graders, the Anchorage School District offers a World Languages Incentive credit-by-choice option.

The World Languages Incentive Credit is an opportunity for students who have studied two years of a language at the middle school (courses 1A and 1B) to earn one graded elective credit. Students must meet the following requirements in order to receive the World Languages Incentive Credit:

- Enroll in Level II (same language as in middle school) in the ninth grade year.
- Complete both semesters of Level II with a "C" or better.
- Request that the incentive credit be added to their high school transcript in accordance with the ASD Credit-byChoice program.
The World Languages Incentive Credit is one graded credit. The student's fourth quarter grade from the eighth grade language course is the grade posted on the transcript in the ninth grade year. The graded credit will affect the student's overall GPA and class rank. Transcripts are legal documents and will not be changed once credit is recorded.
**Due to the COVID-19 pandemic in spring of 2020, ASD will allow for eighth-grade students in the 2019-20 school year to use their third quarter grade if they choose to opt into this incentive credit option. This would be valid throughout their entire high school career (through spring of 2024).

IMMERSION INCENTIVE CREDIT: Although ASD immersion programs are designed as a K-12 continuum with
both a middle and high school continuation strand, the district also recognizes that students may have other interests as they enter high school and may choose to no longer pursue the study of their immersion language. The Immersion Incentive Credit allows students who have completed an immersion program through the end of their 8th grade year to bring up one credit through the credit-by-choice option, documenting their K-8 immersion experience on their high school transcript. Immersion students may still apply for this credit even if they remain in the immersion program throughout high school.

The Immersion Incentive Credit is one graded credit. The student's 4th quarter grade from the eighth grade immersion language course is added to the high school transcript any time after their 9th grade year. The graded credit will affect the student's overall GPA and class rank. Transcripts are legal documents and will not be changed once credit is recorded.

## Independent study

Senior high school students who have the self-discipline and interest for working independently may design a course of study according to their interests, abilities and plans. The course of study must contain requirements above the expected level of the regular class. Independent study is available at every high school but is not intended to duplicate courses already in the master schedule. Students should contact their counselors for more information and principal approval.

## Student foreign exchange programs

The following information is necessary in order for a student to go from the Anchorage School District (ASD) to another country as an exchange student and return with credits that will count toward the student's graduation.
A. Prior to leaving for the exchange, a meeting between the student, parent/guardian and counselor must be initiated by the parent to prepare and complete the following:

1. Credit Check
2. Official transcript reflecting all courses completed
3. Written plan for completion of graduation requirements upon return to the Anchorage School District that includes any correspondence courses the student may be taking during the exchange.
B. During the student's participation in the exchange program, the following two options are available for awarding credits:
4. The student is provided an official transcript by the school they are attending in a foreign country which lists the course title, credit earned and grade. The student will need to provide the Anchorage School District with a course outline for each course listed on the transcript as well as a description of the official grading policies. The course outline will be used by ASD to determine whether the course meets a core academic requirement or will be elective credit.
5. If a student is not able to receive an official transcript with recorded grades, the following must be provided to the Anchorage School District upon the student's return so decisions can be made regarding the awarding of credit:
a. A list of courses taken with an official course outline. This needs to be signed by an administrator at the exchange school for verification. The course outline will be used by ASD to determine whether the course meets a core academic requirement or will be elective credit.
b. An official accounting of time spent in each class. This must include the length of each class, number of days per week and the number of weeks the class meets. This must be signed by an administrator at the exchange school for verification.
C. Evaluation of an exchange student's transcript when returning from a foreign country and awarding of credit will be based upon the following:
6. If the student provides an official transcript with recorded grades, the student will be able to select either option "a" or "b" for recording of grades:
a. $\mathrm{P}=$ Pass
b. Letter Grade of A (90-100), B (80-89), C (70-79), D (60-69), F (below 60). Courses not completed will not be recorded.
7. If the student is not able to provide an official transcript with recorded grades, an evaluation of the student's work will be completed by the principal or designee and credit awarded based upon the following:
a. $1 / 4$ credit $=37$ contact hours
b. $1 / 2$ credit $=75$ contact hours
c. 1 credit $=150$ contact hours

The course outlines and accounting of time spent in each class will be used when making decisions about whether the course meets a core academic requirement or will be awarded elective credit. All credits awarded through an evaluation of course outlines and time spent in class will be graded on a pass/fail basis.
3. Since there is such a wide variation in school calendars in foreign countries, it is possible that the student may receive some grades and credits on an official transcript and some that are still in progress. The student has the option of receiving some of the credits through an official transcript from the exchange school as well as some credits by providing the documentation of time spent in class and course outlines.
If the student does not comply with the above requirements and records are either not provided or are incomplete, the student may risk losing credits needed for graduation. It is also possible that the student may need to take a correspondence course(s) while on the exchange in order to complete all of the graduation requirements.

## Alaska School Activities Association (ASAA) eligibility for sports and activities

Participation in middle and high school athletics is a privilege. All students are expected to comply with local, state, and federal laws and the rules and regulations of the Anchorage School District. Students will be subject to denial of the ability to participate if they: do not meet eligibility requirements, engage
in behavior that is detrimental to the well being of the team or school, are in violation of the tobacco rule, are in violation of the drug and alcohol rule, or commit criminal acts as defined in the ASD Statement of Students Right and Responsibilities. In all cases the Superintendent or his/her designee retains the right to review and revise any disciplinary action. Please refer to ASAA website for a complete description of the ASAA requirements.

## National Collegiate Athletic Association (NCAA) eligibility

Parents should review the NCAA website for complete eligibility rules

## Tech Prep: college credits/trade organizations

Tech Prep is an articulation agreement between the Anchorage School District and post-secondary institutions in the University of Alaska system and various trade organizations (TO)*. ASD students may earn lower level division college credit when successfully completing high school tech prep courses or other advancements with the trade organizations. With the ASD articulations, a small registration fee and successful completion of the ASD course will earn students a credit recorded on their permanent college transcript. College credits provide a head start towards a post-secondary certification or degree, may be transferable to other universities or colleges and activate the services for prospective students provided by the university's advising and counseling office. The following courses presently have tech prep agreements:

Alaska Railroad Tour Guide Program (KTHS) - UAF
Automotive Maintenance Technology (KTHS) - UAA
Aviation Maintenance Technology (KTHS) - UAA
Aviation Technology (KTHS) - UAA
Carpentry (KTHS) - TO*
Certified Nursing Assistant - UAA
Computer-Aided Drafting 3 - UAA
Construction Electricity (KTHS) - TO*
Culinary Arts (KTHS) - UAA, UAF
Electronics and Telecommunications Technology (KTHS) - UAA

Emergency Medical Technology (KTHS) - UAA
Emergency Trauma Technology - UAA
Fire \& Rescue Service (KTHS) - UAA, TO*
Introduction to Pharmacy - UAA
Medical Terminology - UAA
Natural Resources Management (KTHS) - UAA, UAF
Process Technology 1 - UAF
ProStart - UAA
Public Safety \& Security (KTHS) - UAF
Welding (KTHS) - UAA, TO*

For more detailed information, please contact Career and Technology Education, your high school counseling department, or the instructor in any of the above listed courses.
> *The following trade organizations have articulation agreements with ASD: Alaska Joint Electrical Apprenticeship and Training Trust; Alaska Operating Engineers/Employers Training Trust; Associated Builders and Contractors of Alaska, Inc.; Ironworkers Local Union 751; and Southern Alaska Carpenters Union Training Center. The following post-secondary schools have articulation agreements with ASD: University of Alaska Anchorage, University of Alaska Fairbanks, and Kenai Peninsula College.

## Alternative credits

The following Career and Technical Education courses can be taken for alternative academic credit when offered at Anchorage high schools. Courses taught at King Tech High that provide alternative credits are listed on page 13.

Applied Technology and Construction
Applied Technology and Engineering
Aviation Science
BioTapp 1 and 2
Broadcast Journalism I and II
Child Development and Parenting
Emergency Trauma Technology
Essentials of Athletic Injury SC
Food Science
Health Occupations Essentials
Introduction to Pharmacy
Introduction to Veterinary Science
Material Science 1 and 2
Medical Terminology
Physiology of Wellness
PLTW Aerospace Engineering
PLTW Biomedical Innovations
PLTW Civil Engineering \& Architecture
PLTW Computer Integrated Manufacturing
PLTW Digital Electronics
PLTW Engineering Design \& Development
PLTW Human Body Systems
PLTW Introduction to Engineering Design
PLTW Medical Interventions
PLTW Principles of Biomedical Sciences
PLTW Principles of Engineering
Process Technology 1

## COURSE

## DESCRIPTIONS

The following information may aid you in understanding the course descriptions and other information contained in this Program of Studies planner.

Not all courses listed here are offered in all schools at any one time.

## Materials fee required

Some courses will contain this phrase. Such classes require students to purchase items that are personally consumed or are projects which when completed are taken home. This requirement is found in most art, family $\&$ consumer science, and career technology courses.

## Other requirements

Some courses have unique needs which are the student's responsibility. For example, ice hockey requires students to furnish their own skates and music classes require students to supply their own instruments.

## Course length

If a course is a semester in length, credit will be awarded for successful completion at the end of each semester. If a course is a quarter in length, credit will be awarded for successful completion at the end of each quarter. Quarter credit is not given for successfully completing nine weeks of a semester course. A Roman numeral (I, II, III etc.) following a course title denotes a two-semester course when there is more than one level of the course offered. An example is Algebra I and Algebra II. A two-semester course that has only one level offered, e.g., Geometry, will not have a Roman numeral designation behind it. An Arabic number (1, 2, 3 etc.) indicates a one-semester course when more than one level of the course is available. An example would be Computer-Aided Drafting 1, 2, and 3. A one-semester course that does not have a second or third level, e.g., Introduction to Marketing, would not have an Arabic number designation.

## Course repeatability

Most courses listed in the Program of Studies have specific content and may not be repeated for credit. Because of individualized content, some courses may be repeated for credit and these are noted at the end of the course description.

## How to Read A Course Description



Course has articulation agreement with post-secondary institution (Tech Prep, p. xiii)


Grade level 10-12. One semester.


Prerequisite: Accounting 1.
A course for students wishing to further their knowledge in the accounting field. Instruction includes systems for handling cash receipts, payments, purchases and sales. It also deals with special accounting problems-depreciation, interest, bad debts, petty cash and payroll. Instruction in
 the class is individualized and offers further training in computerized accounting.

## CAREER \& TECHNICAL EDUCATION

## Understanding our Programs and choosing the right course

Career Technical Education (CTE) uses the National Career Clusters ${ }^{\ominus}$ Framework to create a structured and connected sequence of courses that lead to careers in high demand occupations in Alaska and across the nation. Pathways are aligned to industry and national standards and advanced courses may provide industry certification, credentials and/or post-secondary credit. CTE offers courses across 15 different career clusters:

- Agriculture, Food $\&$ Natural Resources
- Architecture \& Construction
- Arts, A/V Technology \& Communication
- Business Management \& Administration
- Education \& Training
- Engineering Technology
- Finance
- Health Science
- Hospitality \& Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections \& Security
- Manufacturing
- Transportation, Distribution \& Logistics


## Comprehensive High School Programs and Courses

The following programs are offered at the comprehensive high schools. Specific program availability for each high school can be found on the Career Technical Education website: www.asdk12.org/cte

## Architecture and Construction

This career cluster focuses on designing, planning, managing, building and maintaining the built environment.

## Applied Tech \& Construction.

 H8578
## Grade level 9-12. One semester

## Prerequisite: None

Academic credit: . 5 Physical Science
Applied Technology \& Construction Science is a gateway course in the Construction Education pathway. This hands-on course couples technology education with basic woodworking and construction education exploration. Included within this course is worksite safety as well as an introduction to the proper use of hand and power tools.

## Material Science

H8575

## Grade level 9-12. One semester

## Prerequisite: None

## Academic credit: . 5 Physical Science

This course offers an overview to the Construction trades, with a focus on Framing Carpentry. Students will learn to use hand and power tools, gaining the hands-on skills to work in construction settings. Projects include small buildings, outdoor furniture and other useful products. Portions of this course are taught using
a nationally recognized Occupational Skills Curriculum developed by the National Center for Construction Education and Research (NCCER)

## Material Science 2. <br> H8576

Grade level 9-12. One semester
Prerequisite: Material Science
Academic credit: . 5 Physical Science
The second course in the Material Science series builds upon the skills and knowledge students gain in MS1, involving these students in higher levels of design and construction, giving them supervisory responsibilities, as well as teaching them the fundamentals of cabinetry and finishing carpentry. Like its prerequisite, Material Science I, portions of this course are taught using a nationally recognized Occupational Skills Curriculum developed by the National Center for Construction Education and Research (NCCER). Students taking this course have the opportunity to complete CORE Certification by NCCER (at no cost).

## Applied Tech \& Engineering <br> Grade level 9-12. One semester

H8577
Prerequisite: None.
Academic credit: . 5 Physical Science
Applied Technology and Engineering Science is a gateway course in the Engineering pathway. This hands-on course couples technology education with introductory engineering exploration. Included within this course are engineering design using computer aided drafting, engineering principles and processes, worksite safety, and an introduction to the proper use of hand and power tools.

## Computer Aided Drafting 1 <br> Grade level 9-12. One semester <br> Prerequisite: None <br> Academic credit: . 5 Elective

H8222

Computer Aided Drafting 1 is designed to provide an introduction to drafting and to give students practice in visualization. Both mechanical drawing and architectural drawings are introduced. It is anticipated that this background will be helpful for any student who wishes to work in a field that requires visualization of complex shapes. These fields are as diverse as architecture, civil engineer, interior designer or scientist. With no prerequisites, this class is appropriate for a wide range of students: from freshmen who are just beginning to think about career paths through seniors who are preparing for advanced study. Students will use industry standard CAD software for the majority of all their drawings and design challenges.

## Computer Aided Drafting 2

H8223

## Grade level 9-12. One semester

## Prerequisite: Computer Aided Drafting 1

Academic credit: . 5 Elective
Computer Aided Drafting 2 provides in-depth study and practice on the topics introduced in CAD 1 as well as additional specialized topics in the field of drafting. CAD 2 will provide a solid background for students entering additional training in a wide variety of fields. The course will include residential architectural drawing components in the areas of site planning, building structural design, building cost estimation and interior build-
ing designs. Students will also develop a portfolio of drawings demonstrating projects from the different areas they have studied.
Computer Aided Drafting 3 .H8224

## Grade level 9-12. One semester

Prerequisite: Computer Aided Drafting 2

## Academic credit: . 5 Elective

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With CAD 3, the serious student has the opportunity to expand his/her skill set and complete his/ her portfolio. Time is also available for advanced work in areas studied during the second semester of particular interest to the student, with a final grade determined by both portfolio and test grades. There will also be a strong emphasis on Architectural drawing on commercial buildings. Students will take an existing commercial structure and remodel it to meet up-to-date building codes then redesign the building to meet given criteria. With the completion of this class students will have completed approximately 215 hours of class contact time and will have satisfied the requirements for the articulation agreement for college credit with the Technical College at UAA.

## Arts, A/V Technology \& Communications

This career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

## Broadcast Journalism I . . . . . . . . . . . . . . . . . . . . . . H0801

## Grade level 9-12. One semester <br> Prerequisite: Media and Broadcast Foundations Academic credit: . 5 ELA elective

Students will explore foundational skills in broadcast journalism; including ethics, laws, history, career exploration and camera presence. Students develop communicative writing skills for broadcast news and employ interviewing, revision, and editing skills to produce polished news pieces. At the end of this course, students examine and reflect on developed skills.
Broadcast Journalism II. . . . . . . . . . . . . . . . . . . . . H0802

## Grade level 9-12. One semester

Prerequisite: Broadcast Journalism I

## Academic credit: 5 ELA elective

In-depth and technical journalism skills will be utilized to focus on thematic news writing and production. Using advanced writing, editing and news production skills students can expect to gain specific skills, focusing on broadcasting and purpose-driven video editing skills. Advanced exploration and research into the various career paths of broadcast journalism will help students understand how they can apply their skills in various careers. Successful completion of this course prepares participants for the journalistic aspects of the Arts, A/V Technology, and Communications pathway capstone course.

## Media \& Broadcast Foundations

 H8515
## Grade level 9-12. One semester

## Prerequisite: None

## Academic credit: . 5 Elective

Media and Broadcasting Foundations is a foundational course
where students will explore the use of multimedia to tell a compelling story. The course will serve as an entry point for both the Journalism \& Production Technologies pathways and the Visual Arts pathway. Its primary emphasis is on the core skills needed to communicate a message for any type of organization or endeavor, be it creative, commercial, or personal. In doing so, students will experiment with the use of a wide range of modern media types, discuss the history and ethics of media, and explore related potential careers. Students will learn technical skills needed to operate digital video and camera equipment and earn industry recognized certification.

## Production Studio <br> H8160 <br> Grade level 11-12. One semester <br> Prerequisite: Broadcast Journalism II <br> Academic credit: . 5 Elective

Students will develop leadership and team working skills while gaining experience running and managing all aspects of a professional broadcast media company. During this course, put all skills from prior pathway classes to use in the live production of daily news broadcasts with diverse teams and experience the value of each working position in a live broadcast setting. Develop graphics, run cameras, anchor, mix feeds, create keys, and manage the logistics of live streaming content. Culmination of the course will lead to a professional portfolio along with knowledge of educational, entrepreneurial, and career opportunities.

## Production Technologies I. H8161 Grade level 9-12. One semester Prerequisite: Media and Broadcast Foundations Academic credit: . 5 Elective

Students develop skills in audio and video production using a range of cameras, audio recording, and audio mixing devices. Becoming familiar with various multimedia editing suites students participate in the various aspects of a daily news broadcast. At the end of this course students are prepared to produce content and tell their own digital story.

## Production Technologies II <br> .H8162 <br> Grade level 10-12. One semester <br> Prerequisite: Production Technologies I <br> Academic credit: . 5 Elective

Students explore more technical aspects of audio and video production, developing advance skills in modern and changing equipment. Students can expect to gain focused experience in professional editing software. Successful completion of this course prepares participants for the technical aspects of the Arts, A/V Technology, and Communications pathway capstone course.

## Education \& Training

This career cluster focuses on planning, managing and providing education and training services and related learning support services.

## Teaching and Training

Teachers and trainers are skilled communicators who work to inspire trust and confidence in students and motive them to succeed. Educators must be able to recognize and respond to indi-
vidual student differences and employ many teaching strategies to engage students in learning.

## Leadership Development H8270 <br> Grade level: 10-12 One semester <br> Prerequisite: None <br> Academic Credit: . 5 ELA Elective

Leadership Development is the essential first course in preparing students to become educators. Students will develop skills to become reflective, self-aware learners while building capacity as school and community leaders. Focused on the skills and dispositions required to lead, students will explore equity in education and how personal bias influence how they teach and learn. Students will explore their personal values identifying passions, strengths, and challenges to build a career and learning plan.

## Education: Dev \& Psychology. . H 8271

## Grade level: 10-12 One semester

## Prerequisite: None

## Academic Credit: . 5 ELA Elective

Educational Development \& Psychology explores the development of students across the learning continuum and the importance of understanding students as learners. Students will learn about the diversity of learners in an education system and how educators prepare to meet the needs of all students. In preparation for teaching in a culturally diverse system, students will explore the role of the educator in developing a classroom of respect that embraces diversity and empowers students.

## Education: Learning Culture

. H 8272
Grade level: 10-12 One semester

## Prerequisite: None

## Academic Credit: . 5 Elective

Learning Culture focuses on the learning environments that facilitate student growth. Students will explore how educators create an engaging learning environment that provides culturally relevant learning opportunities and the instructional strategies that support students' self-efficacy. Students will develop lesson plans and facilitate instruction in classrooms within their school or community.

## Education: Developing Professional

. H 8273

## Grade level: 10-12 One semester

## Prerequisite: None

## Academic Credit: . 5 Elective

Developing Professional emphasizes student clinical experiences and the continued development of the education professional. Using reflective practices, students develop and deliver lesson plans that pull together all the elements learned in previous courses. Students will spend time building their professional portfolio and network while developing a learning and career plan.

## Engineering Technology

This career cluster focuses on planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, and engineering) including laboratory and testing services, and research and development services.

## PLTW Aerospace Engineering

H8933
Grade level: 11-12. Two semesters
Prerequisite: PLTW IED
Academic Credit: . 5 Physical Science per semester
This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles.

## PLTW Intro to Engineering Design <br> H8110

## Grade level 9. Two semesters

Prerequisite: Concurrent enrollment or completion of Algebra 1 Academic credit: . 5 Physical Science per semester

Introduction to Engineering Design (IED) is a course that is appropriate for students who are interested in design and engineering or other STEM careers. The major focus of the IED course is to expose students to a design process, professional communication and collaboration methods, design ethics, and technical documentation. IED gives students the opportunity to develop skills in research and analysis, teamwork, technical writing, engineering graphics, and problem solving through activity-, project-, and problem-based (APPB) learning. Students will use industry standard 3D solid modeling software to facilitate the design and documentation of their solutions to design problems and challenges.

## PLTW Civil Eng and Architecture <br> H8000

Grade level 11-12. Two semesters
Prerequisite: Algebra 1, Intro to Engineering Design or CAD 1 Academic credit: . 5 Physical Science per semester

Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building and site design and construction including building components and systems, structural design, storm water management, site design, utilities and services, cost estimation, energy efficiency, and careers in the design and construction industry.

Students will use industry standard 3D architectural modeling software to facilitate site and building design and technical documentation. As the course progresses and the complexity of the design problems increase, students will learn more advanced computer modeling skills as they become more independent in their learning, more professional in their collaboration and communication, and more experienced in problem solving and design.

## PLTW Principles of Engineering

H8116
Grade level 10-12. Two semesters
Prerequisite: Concurrent enrollment or completion of Geometry Academic credit: . 5 Physical Science per semester

Principles of Engineering (POE) is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. To be successful in POE, students should be concurrently enrolled in college preparatory mathematics and science. Students will employ engineering and
scientific concepts in the solution of engineering design problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

## PLTW Digital Electronics

H8112

## Grade level 10-12. Two semesters

## Prerequisite: Concurrent enrollment or completion of Algebra 1

 Academic credit: . 5 Physical Science per semesterDigital Electronics (DE) is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discreet voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, and high definition televisions. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

## PLTW Comp Integrated Manufacturing.

 H8114Grade level 11-12. Two semesters

## Prerequisite: Algebra 1

## Academic credit: . 5 Physical Science per semester

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency. Utilizing the activity-project-problem-based (APPB) teaching and learning pedagogy, students will analyze, design, and build manufacturing systems. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a factory system

## PLTW Engineering Design \& Development H8931

## Grade level 12. Two semesters

Prerequisite: 3 PLTW courses including Principles of Engineering
Academic credit: . 5 Physical Science per semester
Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside
panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process.

## Process Technology 1

.H8140
Grade level 10-12. Two semesters
Prerequisite: Minimum of Algebra A and 1 year of high school science
Academic credit: . 5 Physical Science per semester
Unvivestry of This course is an introduction to process operations Alask farbanks in the Process Technology industry through an overview of general information, processes, procedures, and equipment. Processing techniques used in oil \& gas, chemical, mining, power generation and waste water industries will be investigated. In addition, workplace information such as safety, quality, team building is introduced. Finally, basic processing equipment such as piping, valves, pumps, compressors, turbines, motors, etc. will also be introduced.

## Finance

This career cluster focuses on planning and services for financial and investment planning, banking, insurance, and business financial management.

## Accounting 1. <br> H8508 <br> Grade level 10-12. One semester <br> Prerequisite: None <br> Academic credit: . 5 Elective

This is a semester long course in which students acquire knowledge of accounting cycles of service organizations and merchandisers focusing on the recording of business transactions and preparations of financial statements.

## Accounting 2. <br> H8509 <br> Grade level 10-12. One semester <br> Prerequisite: Accounting 1 <br> Academic credit: . 5 Elective

This course is a semester long for students who are wishing to further their knowledge in the accounting field and designed to provide students with the fundamental skills needed to understand the basic accounting cycle for a sole proprietorship.

## Accounting 3. <br> H8510 <br> Grade level 11-12. One semester <br> Prerequisite: Accounting 2 <br> Academic credit: . 5 Elective

This course is designed for students with an interest in an accounting or business career who want to broaden and improve their knowledge and application of computerized and manual accounting.

## Accounting 4. <br> H8511

Grade level 11-12. One semester
Prerequisite: Accounting 3
Academic credit: . 5 Elective
This is an individualized program designed for the student with interest in accounting or business as a career goal. The emphasis is on departmental accounting.

## Health Science

This Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development in the growing Healthcare Industry.

## Medical Terminology

H8915
Grade level 10-12 (9th with Teacher Recommendation. One semester.
Prerequisite: Biology. Health Occupation Essentials and Anatomy and Physiology are recommended
Academic credit: . 5 Life Science

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| ANCHORAGE |Students will gain an understanding of basic elements, rules of building and analyzing medical words, and medical terms associated with the body as a whole. Utilizing a systems approach, the student will define, interpret, and pronounce medical terms related to structures and functions, pathology diagnosis, clinic procedures, oncology, and pharmacology. In addition to medical terms, common abbreviations applicable to each system will be interpreted.

## Essent of Athletic Injury Management SCI. . . . . . . H6751

## Grade level 12 (11 with instructor approval). One semester

 Prerequisite: Biology \& Anatomy and Physiology
## Academic credit: . 5 Life Science

This course introduces students to the profession of athletic training and related health careers. Principles of fitness conditioning and nutrition for safe and healthy participation in sports will provide a basis for examining proper body mechanics and the faulty mechanics and practices that lead to injury. A study of common athletic injuries and application of appropriate first aid and CPR procedures are central to a broader prevention, treatment and risk management framework applicable to a variety of activity setting. All students will be able to perform basic taping and wrapping of injuries, joints, and other body parts.
Introduction to Pharmacy . . . . . . . . . . . . . . . . . . . H8958
Grade level 11-12 (10th with teacher recommendation). One
semester
Prerequisite: Algebra 1 and Biology, Health Occupations
Essentials, Anatomy/Physiology and 1st semester Chemistry are recommended.
Academic credit: . 5 Life Science


This course provides an overview of the practice of pharmacy and examines the qualification, operational guidelines, and job duties of a pharmacy technician. Students will be introduced to the top 100 drugs, drug classification and interactions. This course also examines the legal and ethical requirements of the field. Students will understand the steps needed to fulfill all requirements necessary to be certified and take the National Pharmacy Technician Certification Exam (PTCE).

## Nutrition \& Fitness <br> Grade level 10-12. One semester <br> Prerequisite: None <br> Academic credit: . 5 Elective

.H8315

This course is designed to increase student's nutritional knowledge through all stages of life. Topics covered include the study
of nutritional sources, functions and deficiencies, contemporary nutritional issues and sports nutrition

## Emergency Trauma Technology . H 8949 <br> Grade level 9-12. One semester <br> Prerequisite: None. Health Occupations Essentials recommended Academic credit: . 5 Life Science

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Emergency Trauma Technology (ETT) students Unvyinir tidska learn to be a part of a pre-hospital medical emergency response team. The program is designed for students planning careers in emergency services careers such as firefighting, search and rescue, guiding, emergency medical technology, and positions that involve working at remote sites where urban EMS systems may not be available. The course is about $25 \%$ lecture and discussion, and $75 \%$ hands-on in which students practice patient assessment and treatment techniques on each other.

## BioTaPP 1

. H 8940
Grade level 11-12. One semester
Prerequisite: Algebra 1, Biology, and Chemistry or concurrent enrollment in Chemistry

## Academic credit: . 5 Life Science

BioTaPP (Biotechnology Training and Preparatory Program) is designed to give students experience in fundamental and advanced biotechnological techniques used in biological research and industry. Students will learn proper research techniques, processes and applications using modern technology. Students practice lab safety while studying biological and chemical sciences.

## BioTaPP 2 <br> Grade level 11-12. One semester <br> Prerequisite: BioTaPP 1 <br> Academic credit: .5 Life Science

H8941

BioTaPP 2 advances students' laboratory and research skills learned in the first semester. Students follow SOPs to conduct advanced research and perform scientific experiments. Students are expected to document and present findings.

## PLTW Principles of Biomed Science.

H8919
Grade level 9-11. Two semesters

## Prerequisite: None

Academic credit: . 5 Life Science 1st semester, . 5 Physical Science 2nd semester

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9 th or 10th grade students.

## PLTW Human Body Systems <br> Grade level 9-12. Two semesters <br> Prerequisite: Principles of Biomedical Science. <br> Academic credit: . 5 Life Science per semester

H8126

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeo-
stasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries. This course is designed for 10th, 11th or 12th grade students.

## PLTW Medical Interventions

 H8110
## Grade level 11-12. Two semesters

Prerequisite: Human Body Systems. Academic credit: . 5 Life Science per semester

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions and will reinforce concepts learned in the previous two courses as well as present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. Lifestyle choices and preventative measures are emphasized throughout the course as well as the important role of scientific thinking and engineering design play in the development of interventions of the future.

## PLTW Biomedical Innovation

. H 8820

## Grade level 11-12. Two semesters Prerequisite: Medical Interventions <br> Academic credit: . 5 Physical Science 1st semester, .5 Life Science 2nd semester

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21 st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health.

## Hospitality and Tourism

This career cluster emphasizes the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

## Culinary Hospitality Foundations

.H8514

## Grade level 9-12. One semester

## Prerequisite: None

Culinary and Hospitality Foundations is a foundational course where students explore the opportunities in the culinary and hospitality industries. Students will develop hospitality, service and career ready practices while mastering safety and sanitation requirements of the service industry. As the preparatory class for

ProStart, students will develop the fundamental kitchen safety skills and learn the foundation of cooking and nutrition.

## ProStart 1 <br> H8360 <br> Grade level 10-12. One semester <br> Prerequisite: Culinary Hospitality Foundations recommended Academic credit: . 5 Elective

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| UNIIERSTY of ALASKA |
| ANCHORAGE |This course introduces students to careers in food service and teaches them the basic skills and knowledge needed for success in the food service industry. The ProStart curriculum was developed by the National Restaurant Association as part of the school-to-career approach to learning. Current best practices are reviewed every year. Topics covered in this semester include an overview of the lodging, restaurant and food service industry; career opportunities; food safety; prevention of accidents and injury; professionalism; standardized recipes; cooking methods; food service equipment; nutrition and stocks, sauces, and soups.

## ProStart 2

H8361
Grade level 10-12. One semester
Prerequisite: ProStart 1. Culinary Hospitality Foundations recommended
Academic credit: . 5 Elective
This course introduces students to careers in food service and teaches them the basic skills and knowledge needed for success in the food service industry. The ProStart curriculum was developed by the National Restaurant Association as part of the school-tocareer approach to learning. Current best practices are reviewed each year. Topics covered in ProStart 2 include communications; working with people; management essentials; fruits \& vegetables; customer service; potatoes \& grains; and career exploration and the hiring process.

## ProStart 3 <br> Grade level 10-12. One semester <br> Prerequisite: ProStart 2. Culinary Hospitality Foundations recommended <br> Academic credit: . 5 Elective

H8362

This course introduces students to careers in food service and teaches them the basic skills and knowledge needed for success in the food service industry. The ProStart curriculum was developed by the National Restaurant Association as part of the school-tocareer approach to learning. Current best practices are reviewed each year. Topics covered in the third semester include exploration and career preparation, the history of food service, the lodging industry, the art of service, potatoes and grains, desserts and baked goods and marketing and the menu. Materials fee required.

## ProStart 4 <br> H8363

Grade level 10-12. One semester
Prerequisite: ProStart 3, Culinary Hospitality Foundations recommended
Academic credit: . 5 Elective
This course introduces students to careers in food service and teaches them the basic skills and knowledge needed for success in the food service industry. The ProStart curriculum was developed by the National Restaurant Association as part of the school-tocareer approach to learning. Current best practices are reviewed each year. Topics covered in the fourth semester include explo-
ration and career preparation, purchasing and inventory control, standard accounting practices, tourism and the retail business, communication with customers, preparing meat, poultry, seafood, stocks, soups and sauces and completing an industry internship. Materials fee required.

## Information Technology

This career cluster builds linkages in IT occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services

## IT Foundations

H8150
Grade level: 9-12 One semester

## Prerequisite: None

## Academic Credit: . 5 Elective

Information Technology Foundations is the underpinning course of all Information Technology pathways. Students will be introduced to foundational aspects of computing and technology, exploring how we interact in a connected environment. Emphasizing career preparation and readiness, this course exposes students to the variety of opportunities in the IT industry. Students will learn about computer hardware, software applications, networks, support and service and programming.

## PLTW Computer Sci Essentials.

H8934
Grade Level: 9-12 Two Semesters
Prerequisite: none
Academic Credit: 1.0 Elective
Computer Science Essentials introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text-based programming side-by-side. Students will learn the power of text-based programming as they are introduced to Python programming language.

## AP Computer Science Principals

.H1202
Grade level: 9-12 Two semesters

## Prerequisite: None

## Academic Credit: 1.0 Elective

AP Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. This course will focus on creativity and encourage students to apply creative processes when developing computational artifacts. Students will use technology and programming as a means to solve computational problems, creating exciting and personally relevant artifacts.

## AP Computer Science A

.H1203

## Grade Level: 9-12 Two Semesters

## Prerequisite: AP Computer Science Principles

## Academic Credit: 1.0 Elective

AP Computer Science A builds on the skills learned in Computer Science Principals to teach students authentic Android ${ }^{\text {TM }}$ app development. Students continue to hone their communication and collaboration skills while learning to use a
variety of tools. The primary goal of the course is to create independent thinking app developers. Each unit builds on students' prior knowledge and skills until they are able to complete an app development cycle independently from the ground up. AP CSA is designed to cover all learning objectives in the College Board's AP Computer Science A framework.

## Manufacturing

This career cluster focuses on planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

## Foundations of Metal Fabrication

H8681
Grade level: 10-12 One semester
Prerequisite: None
Academic Credit: . 5 Elective
In the Metal Fabrication Foundation course, students will explore careers and history of the metal fabrication industry as well learn foundational skills to fabricate metal objects. This hands-on course focuses on the fabrication of metal for industrial and artistic uses. Students will use metal fabrication tools to cut and shape metal, while learning the skills for dimensioning, drawing and drafting.
Metal Fabrication 2
H8682
Grade level 10-12, One semester
Prerequisite: Foundations of Metal Fabrication
Academic credit: . 5 Elective
In the second Metal Fabrication course, students will explore the day-to-day life of a metal fabrication worker and learn more advanced metal fabrication tools and techniques to build upon the foundational course, including layout processes and introduction to welding. This course focuses on industry math through ongoing, relevant math instruction while still maintaining a hands-on, project-based approach.
Industrial Metal Fabrication.
H8683
Grade Level: 10-12 One Semester
Prerequisite: Metal Fabrication 2
Academic Credit: . 5 Elective
In the Industrial Metal Fabrication course, students will prepare to enter a career in metal fabrication by learning more advanced metal fabrication tools and techniques, including layout processes, and defining a specific path and considerations towards entering the field. This course focuses on industry math through ongoing, relevant math instruction while still maintaining a hands-on, project-based approac

## CTE Internship

## CTE Internship <br> H8145

Grade Level: 11-12 One Semester
Prerequisite: 2 courses in CTE pathway
Academic Credit: . 5 Elective
CTE Internship is work-based learning course designed to provide students with advanced learning and experience in a chosen CTE pathway. This course will develop transferable skills necessary to succeed in the ever-changing workplace through team-
work, problem-solving, communication, self-management, and career readiness. Intern students will be placed with a partnering business in a structured learning and working environment. Under the guidance of their instructor, interns will be expected to apply the skills and knowledge from previous CTE courses and gain meaningful industry specific experience. Students will regularly reflect on the application of their learning and create an advanced portfolio or presentation of their learning.

## 2020-21 Academic Dual Credits \& Certifications

Students can earn 1.5 credits for each KTHS course.

| Course | Course \# | Dual credit, certifications \& apprenticeships |
| :---: | :---: | :---: |
| Advertising, Art \& Design 1 | H8422 | Adobe Photoshop CC Certification |
| Advertising, Art \& Design 2 | H8423 |  |
| Advertising Art and Design OJT | H8425 |  |
| Automotive Maintenance Technology 1 | H8409 | UAA - ADT A102 Introduction to Automotive Technology UAA - ADT A150 Brake Systems UAA - ADT A162 Suspension and Alignment |
| Automotive Maintenance Technology 2 | H8410 |  |
| Automotive Maintenance Technology 3 | H8411 |  |
| Automotive Maintenance Technology OJT | H8412 |  |
| (Aviation Maintenance Technology) Aircraft Materials Processes | H8401 | UAA - AMT 176 Aircraft Materials and Processes 1 UAA - AMT 286 Aircraft Materials and Processes 2 |
| Aircraft Bonded Structures | H8402 | UAA - AMT $185+185$ LAircraft Sheetmetal Structures \& Lab |
| Aircraft Sheetmetal Structures | H8403 | UAA - AMT $285+285$ LAircraft Bonded Structures |
| Aircraft Engine Theory | H8404 | UAA - AMT 177 Aircraft Reciprocating Engine Theory |
| Aviation Maintenance Technology OJT | H8405 | UAA - AMT 178 Turbine Engine Theory Snapon Multimeter Certification |
| Aviation Technology 1 | H8406 | Private Pilot's Ground School, Private Pilot's Knowledge Exam |
| Aviation Technology 2 | H8407 | UAA - ATP 100 Private Pilot Ground School |
| Aviation Technology OJT | H8408 | UAA - ATA 102 Intro to Aviation Technology |
| Career \& Work Readiness | H0012SSP |  |
|  | H3020SP |  |
|  | H9805SP |  |
| Carpentry 1 | H8418 | Apprenticeship program; NCCER Core, OSHA 10, Forklift Certification, Scaffolding \& Fall Protection, North Slope Training Card, SkillsUSA |
| Carpentry 2 | H8419 | NCCER Carpentry Level 1 |
| Carpentry 3 | H8420 | NCCER Carpentry Level 2 |
| Carpentry OJT | H8421 |  |
| Collision Repair \& Refinishing 1 | H8413 |  |
| Collision Repair \& Refinishing 2 | H8414 |  |
| Collision Repair \& Refinishing 3 | H8415 |  |
| Collision Repair \& Refinishing 4 | H8416 |  |
| Collision Repair \& Refinishing OJT | H8417 |  |
| Construction Electricity 1 | H8430 | IBEW Pre-Apprenticeship program; NCCER Core, NCCER Electrical Level 1, Weatherization Technician, Your Role in the Green Environment, OSHA 10, SkillsUSA Residential Electrician, LockoutTagout |
| Construction Electricity 2 | H8431 |  |
| Construction Electricity OJT | H8432 |  |
| Cosmetology 1 | H8810 | Hours towards state licensing |
| Cosmetology 2 | H8811 | Alaska Manicurist License |
| Cosmetology 3 | H8812 |  |
| Cosmetology OJT | H8814 |  |
| Culinary Arts 1 | H8311 | Municipality of Anchorage Food Handler's Card <br> UAA - CAA104 Sanitation <br> UAF - CAH F101 Intro to the Culinary Field |
| Culinary Arts 2 | H8312 | UAF - CAH F140 Culinary I Principles \& Techniques |
| Culinary Arts 3 | H8313 | UAF - CAH F150 Food Service Sanitation |
| Culinary Arts OJT | H8314 |  |

## King Tech High <br> 2020-21 Academic Dual Credits \& Certifications

Students can earn 1.5 credits for each KTHS course.

| Course | Course \# | Dual credit, certifications \& apprenticeships |
| :--- | :--- | :--- |
| Early Childhood Education 1 | H8303 | Pediatric First Aid/CPR, Municipality of Anchorage Food Handler's Card |
| Early Childhood Education 2 | H8304 |  |
| Early Childhood Education OJT | H8305 |  |
| Foundations of Electronics | H8245 | Electronic Technicians Association:D.C. Electronics, Student Electronics Technician, <br> Digital Electronics Technician, Computer Service Technician, AC Electronics Technician <br> UAA - CNT A165 Customer Service Fundamentals <br> UAA - CNT A162 PC Building, upgrading, Configuring and Troubleshooting |
| Digital Electronics | H8246 |  |
| Telecommunications | H8247 | H8249 |

## KING TECH PROGRAMS

The following programs are offered at King Tech High (KTHS). Juniors and Seniors are eligible to attend the KTHS. Underclassman are eligible to apply. More information about KTHS can be found at: www.asdk12.org/KingTech

## Agriculture and Food and Natural Resources

Career Cluster focused on the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

## Horticulture Science 1 KTHS

 H8975
## Grade level 11-12. One semester

## Prerequisite: None

## Academic credit: . 5 Life Science, 1.0 Elective

In Horticulture and Landscape Design I students learn basic landscape design principles, construction techniques and hand and power tool safety and function. These skills learned will be beneficial for students pursuing entry level landscape jobs or further education in design. Students will also learn floral design history, cut flower care and elements and design principles as well as build floral designs with fresh cut flowers. Skills learned are beneficial to entry level floral design jobs and certification. Plant anatomy and classification is also covered.

## Horticulture Science 2 KTHS

H8976

## Grade level 11-12. One semester

Prerequisite: Grade of " $C$ " or better in Horticulture and

## Landscape 1

Academic credit: . 5 Life Science, 1.0 Elective
Spring semester students will study plant physiology and reactions to greenhouse environments in-depth, horticulture fields of personal interest, complete independent projects and experiments as well as research cultural requirements of crops grown in the school greenhouse. Students also visit local sites to gain knowledge in area educational and employment opportunities

## Horticulture Science OJT KTHS

H8977
Grade level 11-12. One semester
Prerequisite: Grade of " $C$ " or better in Horticulture and Landscape 2
Academic credit: 1.5 Elective
May be taken 2 times
On the Job Training (OJT) is a continuation of the Horticulture program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Architecture and Construction

Career cluster focused on designing, planning, managing, building and maintaining the built environment.

[^0]Students will receive primary training in residential and light commercial construction methods. The course is taught using the recognized Occupational Skill Standards for the national Center for Construction Education and Research (NCCER). The first semester covers Core Construction. Training is accomplished with the latest in power tools, materials and technology available in the construction industry.
Carpentry 2 KTHS
H8419
Grade level 11-12. One semester
Prerequisite: Grade " $C$ " or better in Carpentry 1
Academic credit: 1.5 Elective
Students will receive primary training in residential and light commercial construction methods. The course is taught using the recognized Occupational Skill Standards for the national Center for Construction Education and Research (NCCER). This semester covers Carpentry Level One Curriculum. Training is accomplished with the latest in power tools, materials and technology available in the construction industry. Students will complete written tests and performance evaluations on certain aspects of the trade. Passing these evaluations may earn certification and national registry with NCCER.

## Carpentry 3 KTHS

H8420
Grade level 11-12. One semester
Prerequisite: Grade " C " or better in Carpentry 2
Academic credit: 1.5 Elective
Apprenticeship Students will receive primary training in residential Program and light commercial construction methods. The course is taught using the recognized Occupational Skill Standards for the national Center for Construction Education and Research (NCCER). The Third semester covers Carpentry Two level curriculum. Training is accomplished with the latest in power tools, materials and technology available in the construction industry. Students will complete written tests and performance evaluations on certain aspects of the trade. Passing these evaluations may earn certification and national registry with NCCER.

## Carpentry OJT KTHS <br> H8421

Grade level 11-12. One semester
Prerequisite: Grade " C " or better in Carpentry 3
Academic credit: 1.5 Elective
May be taken 2 times
On the Job Training (OJT) is a continuation of the Carpentry program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Construction Electricity 1 KTHS

H8430
Grade level 11-12. One semester
Prerequisite: Successful completion of Algebra 1 recommended Academic credit: . 5 Math and 1.0 Elective

KTHS's Construction Electricity program provides in-depth instruction in the theories and principles of electricity. Principles of operation for electrical devices and equipment, and correct and safe operation of tools are covered. The student will study and learn to interpret and apply the requirements of the National Electrical Code for designing electrical layouts, installation meth-
ods, and the maintenance, trouble shooting, and repair of electrical circuits and equipment.

## Construction Electricity 2 KTHS <br> Grade level 11-12. One semester <br> Prerequisite: Grade "C" or better in Construction Electricity 1 Academic credit: . 5 Math and 1.0 Elective

 H8431Apprenticeship Practical (hands-on) application of the classroom Рrogram theory is the main emphasis of the laboratory work. Electrical construction and maintenance electrician students assist in the design and installation of the electrical installations of many projects both on and off campus. Approximately one-third of lab time is spent on actual work sites, gaining real-life work experience.

## Construction Electricity OJT KTHS

 H8432
## Grade level 11-12. One semester

Prerequisite: Grade " C " or better in Construction Electricity 2 Academic credit: 1.5 Elective
May be taken 2 times
On the Job Training (OJT) is a continuation of the Construction Electricity program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Arts, A/V Technology \& Communications

This career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

## Advertising/Art and Design 1 KTHS

. H 8422
Grade level 11-12. One semester

## Prerequisite: None

## Academic credit: . 5 Language Arts and 1.0 Elective

This course is designed for the student interested in acquiring entry-level skills in the rapidly growing Visual Communications industries. Students are introduced to various elements of market research, advertising strategies, typography and logotype, brainstorming and concept development, color and design theory, illustration techniques, magazine and packaging design, layout and construction, target marketing, symbols, logos, print collateral and 3D product design. Students are also assigned computer based advertising projects to complete within the working parameters of timed deadlines and specific standards of quality. Students receive an introduction of practices common to an advertising design studio. Students develop beginning layout and computer graphic skills using Adobe In-Design, Photoshop and Illustrator programs. All students will complete their assigned projects demonstrating a mastery of basic career entry skills.
Advertising, Art \& Design 2 KTHS . . . . . . . . . . . . . . H8423
Grade level 11-12. One semester.
Prerequisite: Grade "C" or better in Advertising/Art and Design 1 Academic credit: . 5 Language Arts and 1.0 Elective

Advanced students will also complete a portfolio of assigned projects which demonstrate a mastery of career ready, entry level skills in one of the following areas: airbrush/illustration; adver-
tising, marketing, computer graphics and desktop publishing, architectural design and/or industrial design using 2D and 3D software. Professionalism is emphasized every day. Career entry opportunities include positions in interior design, advertising, product design, fine art, fashion design, transportation design, furniture design, cartoon illustration, landscape design, computer animation, airbrush, architecture, package design, illustration, desktop publishing and art direction. Assistance with job placement in the above fields and application to colleges and other training programs are available.

## Advertising, Art \& Design OJT KTHS <br> H8425 <br> Grade level 11-12. One semester. <br> Prerequisite: Grade " $C$ " or better in Advertising/Art and Design 2 Academic credit: 1.5 Elective <br> May be taken 2 times

On the Job Training (OJT) is a continuation of the Advertising, Art \& Design program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Film Audio \& Video Production 1 KTHS

H8855
Grade level 11-12. One semester

## Prerequisite: None

Academic credit: . 5 Language Arts, 1.0 Elective
The Film, Audio \& Video Production class is a survey class presenting skills and knowledge students need to launch a successful career in film, radio, music recording, and video or television production. Students complete radio, film, recording and video projects while learning to work as part of a production team. The curriculum includes individual and multidisciplinary assignments geared to developing both creative and technical proficiency. Large studios and modern production equipment support these goals, enabling students to produce high-quality work.

Film Audio \& Video Production 2 KTHS
. H8856
Grade level 11-12. One semester
Prerequisite: Grade " $C$ " or better in Film Audio and Video Production 1
Academic credit: .5 Language Arts, 1.0 Elective
This course refines the Radio, TV, Movie and Music production skills to prepare the student for post-secondary education or entry-level employment in the media technology industry. Students will be responsible for the production of several programs such as KTHS TV Show and a variety of individual projects. 2nd semester students will work on producing their personal Demo Reel, which they will be able to utilize for acceptance to various colleges, trade schools, and internships. Additionally, students will have the opportunity to test for their Television Operator's License and become Adobe: Premiere Pro certified as a video editor.

[^1]On the Job Training (OJT) is a continuation of the Film Audio
\& Video program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Business Management \& Administration

This career cluster focuses on careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

## Entrepreneurship \& Enterprise 1 KTHS

 H8095
## Grade level 11-12. One semester

## Prerequisite: None

Academic credit: . 5 Economics and . 5 Language Arts and . 5 Elective

Students will learn and experience business operations through a hands-on and problem-based curriculum. The focus will be entrepreneurship; students will work in teams to develop, plan, and sell a product or service at KTHS. Students will learn how fields such as accounting, finance and marketing fit together in a functioning business. Personal ethics, business planning, economics, finance, accounting basics, communications, marketing, corporate responsibility and technical writing will be integrated into the course. The Anchorage Chamber of Commerce will issue an "endorsement" to students who have successfully met its portfolio requirement.

## Entrepreneurship \& Enterprise 2 KTHS

 H8096Grade level 11-12. One semester
Prerequisite: Grade "C" or better in Entrepreneurship \&
Enterprise 1
Academic credit: . 5 Economics and . 5 Language Arts and . 5 Elective

Students in second semester Entrepreneurship and Enterprise will continue to develop their entrepreneurial and retail management skills. They will also complete an internship in a business that matches their interests and future goals, and finish the semester by managing a project for an Alaska non-profit, or developing a business plan for a future enterprise.

## Career Readiness

This cluster focuses on career transitions and preparation for being work ready.

## Career \& Work

Readiness KTHS. . . . . . . .H0012SSP/H3020SP/H9805SP

## Grade level 10-12. One semester

## Prerequisite: Must have an IEP

Academic credit: . 5 Language Arts, . 5 Social Studies, .5 Elective
The Work Readiness Program is for students with Individual Education Plans (IEP) who are ready to begin the process of transition from school to work. Being "work ready" requires preparation, practice, exploration and work experience in order to be successful in reaching their employment and vocational goals. Students have an opportunity for a Formal Vocational Assessment to help determine their interests and aptitudes. Students will complete a portfolio with resume, writing samples, and other documents necessary for job search, training, scholarships and future transitional planning.

Students will interview for appropriate placement. This class is designed to develop an Individual Employment Plan, prepare to become competitively employed, or seek and apply for training through college, vocational training, apprenticeship or on-the-job training.

## Education and Training

This career cluster focuses on planning, managing and providing education and training services, and related learning support services from infant through adult education.

## Early Childhood Education 1KTHS

H8303
Grade level 11-12. One semester
Prerequisite: Municipal licensing requires all students to complete paperwork for a background check and documented health history Academic credit: . 5 Social Studies Elective, 1.0 Elective

The Early Childhood Education Program provides students an opportunity to work and learn about young children. Students work in a municipal-licensed preschool that follows NAEYC Accreditation Standards. The first semester curriculum includes: child development, health, safety, guidance, and parenting. Students enrolled in the second semester will continue their study of child development focusing on the elements of a quality learning environment and creative development of young children.

## Early Childhood Education 2 KTHS

H8304
Grade level 11-12. One semester
Prerequisite: Grade "B" or better in Early Childhood Education 1
Academic credit: 1.5 Elective
In Early Childhood Ed 2nd Semester students continue their study of early education. Students concentrate on developmentally appropriate ECE curriculum development and lesson planning in all of the curriculum areas (art, music, science, math, social studies, literacy, outdoor/games).Lessons are implemented in the preschool setting.

## Early Childhood Education OJT KTHS H8305 Grade level 11-12. One semester. Prerequisite: Grade "B" or better in Early Childhood Education 2 Academic credit: 1.5 Elective <br> May be taken 2 times

On the Job Training (OJT) is a continuation of the Early Childhood Education program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Engineering Technology

This career cluster focuses on planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.
Fundamentals of Electronics KTHS H8245
Grade level 11-12. One semester
Prerequisite: Algebra 1 with a grade of " $C$ " or higher Academic credit: . 5 Physical Science, .5 Math, . 5 Elective

| [Lat | This course integrates extensive interactive comput- |
| :---: | :---: |
|  |  | andications and application. Students can earn college credits and electronics certifications that may be given upon successful course competi-

tion and students may enjoy advanced standing at other post-secondary institutions. First semester, personnel skills to include careers, business ethics, and interacting with customers. Basic D.C. electricity which includes safety, soldering, schematics, series and parallel circuits, tools, components, cabling and test equipment.

Electronics and Telecommunications 3 KTHS. . . . H8247
Grade level 11-12. One semester
Academic credit: . 5 Math, . 5 Physical Science, . 5 Elective

This course integrates extensive interactive computelectonics theory and application. Students can earn college credits and electronics certifications that may be given upon successful course competition and students may enjoy advanced standing at other post-secondary institutions. Third semester, advanced A.C., advanced digital circuits, analog circuits. Student electronic apprentice certification possible.
Electronics and Telecommunications 4 KTHS . . . . H8248

## Grade level 11-12. One semester

Prerequisite: Grade " $C$ " or better in Electronics and

## Telecommunications 3

## Academic credit: 1.5 Elective

This course integrates extensive interactive computer programs to emphasize basic electronics theory and application. Students can earn college credits and electronics certifications that may be given upon successful course competition and students may enjoy advanced standing at other post-secondary institutions. Fourth semester, usually OJT and/or special advanced projects.

## Electronics and Telecommunications OJT KTHS .H8249 Grade level 11-12. One semester Prerequisite: Grade " $C$ " or better in Electronics and Telecommunications 4 <br> Academic credit: 1.5 Elective May be taken 2 times

On the Job Training (OJT) is a continuation of the Electronics \& Telecommunications program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Emergency Medical Tech KTHS
H8950
Grade level 11-12. One semester
Prerequisite: None.
Academic credit: . 5 Life Science, 1.0 Elective

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Emergency Medical Technology (EMT) students learn to be a part of a pre-hospital medical emergency response team. The program is designed for students planning careers or professions for which emergency medicine is an integral part. The course is about $50 \%$ lecture and discussion, and $50 \%$ hands-on in which students practice patient assessment and treatment techniques on each other. There is also a practicum component of the course where students shadow on-duty certified EMTs, and assist at health fairs and first aid training for other schools and community groups.

## Emergency Medical Tech OJT KTHS

. H 8953
Grade level 11-12. One semester
Prerequisite: None.
Academic credit: 1.5 Elective
May be taken 2 times
On the Job Training (OJT) is a continuation of the EMT program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Veterinary Assisting KTHS.

H8924
Grade level 11-12. One semester.
Prerequisite: Grade of " C " or better in Biology.
Academic credit: . 5 Life Science, .5 Math Elective, .5 Elective
Veterinary Assisting is the introduction to a career in veterinary medicine. Students will learn about the diverse career opportunities in veterinary medicine while gaining the knowledge, skills and hands-on training needed to become a certified veterinary assistant. Students will learn the skills needed to provide compassionate medical care to all animals and promote their well being under the supervision of veterinarians and veterinary technicians. Students will study animal anatomy and physiology, animal behaviors, animal care, laboratory procedures, husbandry and nutrition, emergency and critical care and office and client communications.

## Advanced Veterinary Assisting KTHS <br> H8923 <br> Grade level 11-12. One semester <br> Prerequisite: Grade of " B " or better in Veterinary Assisting and teacher recommendation <br> Academic credit: . 5 Life Science, 1.0 Elective

Advanced Veterinary Assisting advances students in preparation for the Certified Veterinary Assistant exam and to prepare for a career in veterinary medicine. Students will learn about the diverse career opportunities in veterinary medicine while gaining the knowledge, skills and hands-on training needed to become a certified veterinary assistant. Students will learn the skills needed to provide compassionate medical care to all animals and promote their well being under the supervision of veterinarians and veterinary technicians. Students will study animal anatomy and physiology, animal behaviors, animal care, laboratory procedures, husbandry and nutrition, emergency and critical care and office and client communications.

## Veterinary Assisting OJT KTHS <br> H8922 <br> Grade level 11-12. One semester Prerequisite: Grade of " B " or better in Advanced Veterinary Assisting and teacher recommendation <br> Academic credit: 1.5 Elective <br> May be taken 2 times

On the Job Training (OJT) is a continuation of the Veterinary program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Hospitality and Tourism

This career cluster emphasizes the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.
Culinary Arts 1 KTHS H8311

## Grade level 11-12. One semester

Prerequisite: None
Academic credit: . 5 Physical Science, 1.0 Elective

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Unvergstry of Alaska Fairbanks This program is designed to introfor a successful career in culinary arts. Cooking instruction will include American regional, European and Asian cuisines. Students will be instructed on classical culinary skills including: knife skills, station organization, cooking methods and techniques, soups, stocks and sauces, vegetable and starch cookery as well as meat and fish fabrication. Baking instruction includes knowledge of the functions of ingredients, basic technique and preparation methods of advanced and classical pastries, cakes and breads. Garde manger instruction will include proper care and preparation of a variety of salads, dressings and garnishes. Students will also become familiar with the use and care of state-of-the-art tools and professional culinary equipment as part of the curriculum along with the understanding and adherence of modern kitchen sanitation and safety standards.
Culinary Arts 2 KTHS . . . . . . . . . . . . . . . . . . . . . . . . H8312

## Grade level 11-12. One semester.

Prerequisite: Grade " $B$ " or better in Culinary Arts 1.
Academic credit: . 5 Physical Science, 1.0 Elective
Culinary 2 students are further exposed to American and World regional cuisines and will continue to develop the basic skills learned in Culinary I through lecture, required caterings and daily production for the KTHS Cafeteria. Advanced baking techniques will be introduced. Students will be required to plan and organize a restaurant concept to include designing a menu and restaurant floor plan while staying in theme with a regional cuisine of their choice. In addition students will also explore the culinary profession, learn about post-secondary education and jobs available in the culinary field.
Culinary Arts 3 KTHS H8313

## Grade level 11-12. One semester

Prerequisite: Grade " B " or better in Culinary Arts 2
Academic credit: . 5 Physical Science, 1.0 Elective
Culinary 3 students are continuing to develop the skills they have learned in Culinary $1 \& 2$ through required caterings and
daily production for the KTHS Cafeteria. They are required to provide a strong leadership role and assistance for their peers at their stations during production. Students will be required to create a culinary portfolio to document their experiences of their restaurant project and practical through an essay explaining the origins and background of the overall project, and brief explanations of the courses prepared with photos of the completed dish. Students will be required to update their professional resume and scholarship portfolio. Students will also be required to conduct a job shadow, minimum of 2 hours, with a local chef and provide a biography of this chef and an essay summarizing the job shadow experience.

## Culinary Arts OJT KTHS. .H8314 <br> Grade level 11-12. One semester <br> Prerequisite: Grade " B " or better in Culinary Arts 2 <br> Academic credit: 1.5 Elective <br> May be taken 2 times

On the Job Training (OJT) is a continuation of the Culinary program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Travel and Tourism

This pathway will focus on development, research, and packaging promotion of the traveler's experience. There is a broad range of jobs in the pathway from planning trips and evening to managing customer's travel plans or overseeing an urban convention center.

## AK Railroad Tour Guide Program (KTHS). . . . . . . . H8656

Grade level 9-12. One semester after-school program at KTHS
Prerequisite: None
Academic credit: . 5 Alaska Studies
The Alaska Railroad Tour Guide program is an intensive training program which is designed for students to develop a thorough knowledge of Alaska visitor interests and professional skills as tour guides and ambassadors for Alaska Tourism. The program is sponsored through a School Business Partnership between the Alaska Railroad and ASD - King Tech High. This program is offered as a 10 week, spring semester class and is held during after-school hours.

## Human Services

This career cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

## Cosmetology 1 KTHS <br> H8810 <br> Grade level 11-12. One semester <br> Prerequisite: None. $\$ 40.00$ lab fee <br> Academic credit: . 5 PE/Health, 1.0 Elective

Cosmetology I is a job-oriented course of instruction in the field of Hairdressing. Students receive a State of Alaska Hairdressers Student Permit. Student will have their hours and operations documented. The hours and operations earned are accumulated toward the 1,650 hours and operations required for Alaska of State licensing in the field of Hairdressing. All hours and
operations are transferable if a student should transfer to another post-secondary Cosmetology school within the State of Alaska.

## Cosmetology 2 KTHS H8811 <br> Grade level 11-12. One semester <br> Prerequisite: Grade "B" or better in Cosmetology $1 . \$ 40.00$ lab fee Academic credit: . 5 Science Elective, 1.0 Elective

Cosmetology II is a job-oriented course of instruction in the field of Hairdressing. Students receive a State of Alaska Hairdressers Student Permit. Student will have their hours and operations documented. The hours and operations earned are accumulated toward the 1,650 hours and operations required for Alaska of State licensing in the field of Hairdressing. All hours and operations are transferable if a student should transfer to another post-secondary Cosmetology school within the State of Alaska.

## Cosmetology 3 KTHS . H 8812 <br> Grade level 11-12. One semester <br> Prerequisite: Grade " B " or better in Cosmetology $2 \$ 40.00 \mathrm{lab}$ fee Academic credit: 1.5 Elective

Cosmetology 3 is a job-oriented course of instruction in the field of Hairdressing. Students receive a State of Alaska Hairdressers Student Permit and will have their hours and operations documented. The hours and operations earned are accumulated toward the 1,650 hours and operations required for Alaska of State licensing in the field of Hairdressing. All hours and operations are transferable to another post-secondary Cosmetology school within AK.

## Cosmetology OJT KTHS .H8814 <br> Grade level 11-12. One semester <br> Prerequisite: Grade " B " or better in Cosmetology $3 \$ 40.00$ lab fee <br> Academic credit: 1.5 Elective <br> May be taken 2 times

On the Job Training (OJT) is a continuation of the Cosmetology program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Information Technology

This career cluster builds linkages in IT occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services

## IT Service and Support KTHS

 H8541
## Grade level 11-12, One semester

## Prerequisite: None

Academic credit: . 5 Math Elective, . 5 Physical Science, . 5 Elective
In this introductory course, we begin with building a desktop computer, while learning to install and manage an operating system. Throughout the course we will study the history and the career possibilities in this dynamic industry. With a continual focus on safety, cybersecurity, and ethical work practices, students will learn the foundation for ensuring an organization's technological equipment is running smoothly, including the maintenance and troubleshooting of hardware, operating systems, software, and peripherals. High level customer service, communication, and real-world problem solving skills will be challenged in an immersive work-based environment with increasingly tech-
nical and collaborative projects that challenge students to think critically and design solutions to meet customer needs.

## IT Service and Support 2 KTHS <br> Grade level 11-12, One semester <br> Prerequisite: IT Service and Support <br> Academic credit: 1.5 Elective

 .H8542From building a computer from scratch to ethically hacking into a network to reveal cybersecurity vulnerabilities, the Information Technology pathway will demystify this rapidly evolving industry. With a continual focus on safety, cybersecurity, and ethical work practices, students will learn the foundation for ensuring an organization's technological equipment is running smoothly, including the maintenance and troubleshooting of hardware, operating systems, software, peripherals, networks and servers. High level customer service, communication, and realworld problem solving skills will be challenged in an immersive work-based environment with increasingly technical and collaborative projects that challenge students to think critically and design solutions to meet customer needs. The pathway culminates in a practicum, allowing students the opportunity to work within industry or on a student-led capstone project.

## Law and Public Safety

This career cluster focuses on planning, managing and providing legal, public safety, protective services and homeland security, including professional and technical support services.
Fire \& Rescue Services KTHS H8129
Grade level 11-12. One semester
Prerequisite: None
Academic credit: . 5 Physical Science, 1.0 Elective

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University of Students learn to be a part of an andmaxans emergency response team while planning for careers in emergency services occupations such as firefighters, hazardous material specialists, search and rescue personnel, and dispatchers. Topics include Chemistry and physics of fire behavior, the use of specialized apparatus, hydrants and commercial fire extinguishment systems, vehicle accidents and fires, search and rescue techniques, hazardous materials spills, confined space rescues, arson investigation, disaster triage, and emergency management. The course also includes topics on careers, the hiring process and barriers to employment, professional resumes and job interviews.

## Fire \& Rescue Services OJT KTHS

H8128
Grade level 11-12. One semester
Prerequisite: Fire \& Rescue Services
Academic credit: 1.5 Elective
May be taken 2 times
On the Job Training (OJT) is a continuation of the Fire \& Rescue program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Manufacturing

This career cluster focuses on planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities
such as production planning and control, maintenance and manufacturing/process engineering.
Welding 1 KTHS . . . . . . . . . . . . . . . . . . . . . . . . . 88466
Grade level 11-12. One semester
Prerequisite: None
Academic credit: 1.5 Elective
 introduction to the cutting and welding of mild steels by the oxy-acetylene and electric arc processes.

## Welding 2 KTHS <br> . H 8467 <br> Grade level 11-12. One semester <br> Prerequisite: Grade "B" or better in Welding 1 and fewer than 10 absences <br> Academic credit: 1.5 Elective

The second semester is designed for blueprint read-
 of mild steels with the gas metal arc welding process (GMAW)'. Second and third semester students will be learning advanced welding and fabrication techniques with respect to American Welding Society (AWS) recommended practices.

## Welding 3 KTHS .H8468 <br> Grade level 11-12. One semester <br> Prerequisite: Grade "B" or better in Welding 2 and fewer than 10 absences <br> Academic credit: 1.5 Elective

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| :---: | Second and third semester students will be learning advanced welding and fabrication techniques with respect to American Welding Society (AWS) recommended practices The third semester program is for advanced students and prepares them for jobs in welding-related industries and welder certification using shielded metal arc welding (SMAW).

## Welding OJT KTHS . <br> . H 8469

Grade level 11-12. One semester
Prerequisite: Grade "B" or better in Welding 3 and fewer than 10 absences

## Academic credit: 1.5 Elective

May be taken 2 times
On the Job Training (OJT) is a continuation of the Welding program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Transportation, Distribution \& Logistics

This career cluster focuses on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

## Aircraft Materials Processes KTHS. . . . . . . . . . . . . H8401 <br> Grade level 11-12. One semester <br> Prerequisite: None <br> Academic credit: . 5 Physical Science, .5 Math, .5 Elective

LEAT Students will be introduced to aircraft hardware Unviserit fasse basic processes of aircraft hardware usage, corrosion control, heat
treatment, and hardness testing. In the lab students will build skills in performing inspection and maintenance functions on welded aircraft structures.

## Aircraft Bonded Structures KTHS <br> H8402

Grade level 11-12. One semester
Prerequisite: Grade of "C" or better in Aviation Maintenance 1 Academic credit: . 5 Physical Science, . 5 Math, 5 Elective
Untilat Examines the theory of and practices techniques
 ishing of bonded structures, i.e. plastics, wood, fabric, carbon fiber, aerometric polyfiber, composite and honeycombed structures to aircraft in shop and field environments.

## Aircraft Sheetmetal Structures KTHS <br> H8403

Grade level 11-12. One semester
Prerequisite: Grade of "C" or better in Aviation Maintenance 2 Academic credit: 1.5 Elective
Introduces sheetmetal, its properties and uses in Unvyisirit ilssad fabrication of structural and nonstructural components of aerospace vehicles. Inspection techniques are addressed along with fabrication and repair processes of bending, cutting, forming, drilling, and riveting aluminum sheetmetal parts.

## Aircraft Engine Theory KTHS H8404 Grade level 11-12. One semester <br> Prerequisite: Grade of "C" or better in Aviation Maintenance 3 Academic credit: 1.5 Elective

Introduces the theory of operation and construction of the internal combustion and turbine engines. Examines the combustion processes, design rationale, cooling and lubrication of reciprocating engines. Introduces thrust development and design, and environmental factors that influence thrust along with construction details from inlet to exhaust for turbine engines.

## Aviation Maintenance OJT KTHS

H8405
Grade level 11-12. One semester
Prerequisite: Grade of "C" or better in Aviation Maintenance 4
Academic credit: 1.5 Elective
May be taken 2 times
On the Job Training (OJT) is a continuation of the Aviation Maintenance Tech program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Collision Repair \& Refinishing 1 KTHS.

H8413
Grade level 11-12. One semester.
Prerequisite: None.
Academic credit: 1.5 Elective.
Students will learn metal straightening, plastic filler application, body panel replacement, sectioning, minor frame repair, auto body alignment and glass replacement.

[^2]Students will learn basic shop safety, tools and equipment used
in the maintenance and repair of gasoline engines. Identify engine parts, construction and the principles of operation.

Collision Repair \& Refinishing 3 KTHS. . H 8415

## Grade level 11-12. One semester.

## Prerequisite: Grade " C " or better in Collision Repair \&

## Refinishing 2.

Academic credit: 1.5 Elective.
Third semester Students in Body/Fender will learn metal straightening, plastic filler application, body panel replacement, sectioning, minor frame repair, auto body alignment and glass replacement. Shop refinish practices include surface preparation, mixing and applying paint, complete vehicle refinishing and blending. In the second through fourth semesters students will be expected to complete course work and projects at an advanced level and to demonstrate competencies in skill areas not covered in the previous semesters

## Collision Repair \& Refinishing 4 KTHS.

H8416

## Grade level 11-12. One semester.

Prerequisite: Grade "C" or better in Collision Repair \&

## Refinishing 3.

Academic credit: 1.5 Elective.
Fourth semester Students in Body/Fender will learn metal straightening, plastic filler application, body panel replacement, sectioning, minor frame repair, auto body alignment and glass replacement. Shop refinish practices include surface preparation, mixing and applying paint, complete vehicle refinishing and blending. In the second through fourth semesters students will be expected to complete course work and projects at an advanced level and to demonstrate competencies in skill areas not covered in the previous semesters.

## Collision Repair \& Refinishing OJT KTHS

 H8417
## Grade level 11-12. One semester

Prerequisite: Grade " $C$ " or better in Collision Repair \&

## Refinishing 4

## Academic credit: 1.5 Elective

On the Job Training (OJT) is a continuation of the Collision Repair program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## Transportation Operations (Aviation Technology)

This pathway prepares students for careers in the aviation operations industry as a pilot, air traffic controller, airfield operations specialist, flight engineer or transportation manager.

## Aviation Technology 1 KTHS <br> H8406

Grade level 11-12. One semester
Prerequisite: None
Academic credit: . 5 Physical Science, 1 Elective
LAAA
UNIIERSTY of ALASKA
ANCHORAGE

This course prepares students for an entry level position in the air transportation industry by introducing them to a wide variety of available career options. This course is designed to be "hands-on", covering the basic elements of Professional Piloting, Air Traffic Control, and Aviation Administration. Students will concentrate on History, Aerodynamics, Flight Instruments, Aircraft Systems and Performance, Weight and Balance, and Aeronautical Charts. Students will $\log$ simulator time in a state of the art flight simulator, visit aviation organizations and businesses, and host a variety of aviation professionals.

## Aviation Technology 2 KTHS

H8407
Grade level 11-12. One semester
Prerequisite: Grade of " $C$ " or better in Aviation Technology 1 Academic credit: . 5 Physical Science, 1 Elective
 Exam, and receive flight training in UAA's flight simulators. Students will learn the importance of good communication and teamwork as they experience an advanced air traffic control tower simulator and a TRACON radar simulator. Students will be introduced to the variety of demands and skills required to fund, construct, and maintain an airport. Students will develop a scholarship folder, visit a variety of aviation related job sites, and host a variety of aviation professionals.

## Aviation Technology OJT KTHS <br> H8408

## Grade level 11-12. One semester

Prerequisite: Grade of " $C$ " or better in Aviation Technology 1
Academic credit: 1.5 Elective
On the Job Training (OJT) is a continuation of the Aviation Technology program. Students are placed in a position related to the industry to continue to explore the career. Students will work a minimum of 12 hours per week for a semester.

## ENGLISH LANGUAGE LEARNERS (ELL)

These courses are designed for high school students who meet the English Learner criteria established by state and district guidelines. The courses are designed to accelerate acquisition of the advanced, content-specific, language and literacy practices foundational to English learner access of district college and career preparatory pathways.

## ELL STEM Innovation Series H9830 ELMA Credit: Algebra 1.0

## ELL STEM Innovation Series

 H9831ELSC1 Credit Life Science . 5
## ELL STEM Innovation Series

 H9831ELSC2
## Credit Physical Science . 5

AEL STEM Innovations series offers students a platform for developing capacities for mathematical, scientific, and engineering practices delivered through project and problem-based experiences as a vehicle for developing wonder, processing real-world problems, and preparing students for college and career readiness. Students will conduct and experience inquiry-based investigations as well as analyze and interpret the language of science, technology, engineering, and mathematics.

## ELL ELA - Social Studies Infused

H9832ELLA Credit: Language Arts appropriate to grade - If 10th grader they will get English II etc.

## ELL ELA - Social Studies Infused H9833ELSS1 Credit 5 Social Studies Elective

## ELL ELA - Social Studies Infused. H9833ELSS2 Credit 5 US Government

AEL ELA - Social Studies Infused offers students a platform for developing competency in Common Core Literacy practices delivered through project and problem-based experiences as a vehicle for developing wonder, processing real-world problems, and preparing students for college and career experiences. Students will critically think, process and analyze historical, cultural and current events; evaluate sources and use evidence; and communicate using written, oral and technological platforms.

## FINE ARTS

## ART

Students will be expected to perform at a higher level of competency and advancement with each semester enrolled in a course.
Advanced Art I . . . . . . . . . . . . . . . . . . . . . . . . . . . . H5311
Grade level 11-12. Two semesters.
Prerequisite: Art I and Art II, or instructor approval with portfolio review.
Materials fee required each semester
The intent of this course is to provide a pathway for artistically interested, motivated art students who would like to pursue rigorous art studies on a higher level of study. The first two semesters students will concentrate on a breadth of works. Students elect-
ing to advance to AP Art Studio the next year will be prepared with the breadth of art works, one of three requirements for The College Board portfolio review. After successfully completing Advanced Art I, students may elect to enroll in Advanced Art II.

## Advanced ArtII

H5312
Grade level 11-12. Two semesters.
Prerequisite: Advanced Art I
Materials fee required each semester.
The course content concentrates on themes, big ideas, and portfolio development in preparation for student scholarship applications, college entrance requirements, employment preparation, and personal growth. Over the course of two years, Advanced Art I and Advanced Art II, students will be increasing their artistic skills and expression with a purpose in preparation for post-secondary studies, scholarships, employable skills, and/or careers in the visual arts.

## Advanced Placement Art Studio

H5015
Grade level 11-12. Two semesters.
Prerequisite: Portfolio with minimum of six pieces required for review by Advanced Placement selection committee established by the building Art Department staff. Portfolio review required each time the student elects to take Advanced Placement Art. Students will select one of the following categories for portfolio review: Art Studio: 2D, Art Studio; 3D, or Drawing.
Portfolio review by The College Board is required for AP credit. Materials fee required each semester.

Students will select one of the following categories for their portfolio development: Art Studio: 2-D, Art Studio: 3-D, or Art Studio: Drawing. This program is offered for students pursuing college level work while enrolled in high school. Highly interested, motivated students accepted into the program are encouraged to develop a portfolio, which can be submitted in their senior year to The College Board and reviewed for the granting of college credit. This class is structured in such a way as to encourage freedom of expression, which allows for a variety of solutions to artistic visual problems. This course will reflect three major components that are constants in the teaching of art: a sense of quality in a student's work, a personal in-depth preoccupation or concentration with a particular mode of working and the student's need for a variety of breadth of experiences in the formal technical and expressive means of the artist. Two-semester course.
Art 1
H5309
Grade level 9-12. Two semesters.
Prerequisite: None. (consecutive semester enrollment recommended, but not required) Materials fee required each semester.

This is an integrated study of the visual arts. The major areas of study are drawing, painting, printmaking, sculpture and art metals. Each quarter is presented in an order to develop design concepts, use of media, art history, self-expression and criticism.
ArtII. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 53310
Grade level 9-12. Two semesters.
Prerequisite: Both semesters of Art I. (consecutive semester enrollment recommended, but not required)
Materials fee required each semester.
Quarterly activities built on the foundations of study of Art I.

Theming, advanced ideas and problem solving are featured in Art II.

## Art Studio

 H5120Grade level 9-12. One semester.

## Prerequisite: None.

## Materials fee required each semester.

This is a general exploratory course with a strong emphasis on the elements and principles of design. A variety of art processes and media, i.e., drawing, lettering, printmaking, painting, fiber, layout, jewelry, sculpture, and art appreciation will be introduced. May be taken 4 times.
Drawing and Design . . H 5070

## Grade level 9-12. One semester.

## Prerequisite: None.

Materials fee required each semester.
Introductory course to drawing materials (pastels, crayon, paint and mixed media, pencil, pen and ink, charcoal), drawing techniques such as contour, gesture, perspective, shading and design concepts. Studio course emphasizing the principles of composition, color theory, value and tonal studies. May be taken 4 times.

Jewelry ............................................. . H5325
Grade level 9-12. One semester.
Prerequisite: None. Art Studio, Art I or Drawing and Design recommended.

## Materials fee required each semester.

An exploration of fabricated jewelry. Projects will be based upon designing, sawing, soldering and polishing jewelry made from flat sheets of metal. The use of natural and man-made materials to enhance projects will be emphasized. The course may include simple forging, casting, enameling, etching and stone setting (equipment dependent). May be taken 4 times.
Painting . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . H5140
Grade level 9-12. One semester.
Prerequisite: Art Studio or Drawing and Design. Materials fee required each semester.

A study of media and techniques in painting, i.e., watercolor, tempera, acrylic, oil and mixed media will be explored in conjunction with a basic investigation of materials and history of painting. May be taken 4 times.

## Photography 1

. H 5452
Grade level 9-12. One semester.
Prerequisite: None.
Academic Credit: $1 / 2$ Elective.
This course will provide a basic knowledge of how to take pictures, develop negatives and produce a black and white print. Students will also explore the role of photography in our lives today. Basic composition and print finishing techniques will be covered. Students must furnish their own camera, film and printing paper. A materials fee is required. Many chemicals are used in the photographic process and students will learn how to put safety first. Instruction begins with an explanation of Material Safety Data Sheets, proper chemical handling and safety precautions in a laboratory setting. Students will learn the proper and safe use of equipment. Digital photography education and training is also
included at most high schools as part of this course. Some comprehensive high schools provide only digital photography exclusively. Students should check with their individual high school for more information.

## Photography 2 <br> H5453 <br> Grade level 9-12. One semester.

Prerequisite: Photography I.
Academic Credit: 1/2 Elective.
Students will research a professional photographer, read text materials about advanced photographic information and opportunities and become aware of the advancement of photographic equipment and career opportunities. Students will gain additional instruction in Material Safety Data Sheets, proper chemical handling and other safety precautions in the laboratory. Students will learn about various camera types and be able to perform proper handling and operations of advanced, standard, digital and vintage cameras and lenses. Students will perform proper print making techniques and create or scan digital images on computer. Students will learn about a variety of composition techniques using various photographic techniques and use the various composition techniques by performing individual projects.

## Multimedia Design <br> . H 5455 <br> Grade level 9-12. One semester segments. Semesters three and four are designed for advanced students. <br> Prerequisite: None. Art Studio or Drawing \& Design recommended Materials fee required each semester.

The Multimedia Design course is a merging of traditional art processes with emerging technology. Students will link together a variety of media such as graphics, text, audio and visual programs using basic concepts of two- and three-dimensional design. Through a variety of learning activities, emphasis will be placed on the creative process, conceptual design, solutions and practical applications. May be taken 4 times.

## Pottery. <br> Grade level 9-12. One semester. <br> Prerequisite: None. Art Studio or Drawing and Design recommended. <br> Materials fee required each semester.

H5155

Beginning students will study media skills, techniques of hand building with clay, such as pinch, coil and slab and history of clay as an art form. Clay processes, preparation, experimentation with texture, surface decoration, sculpture, wheel throwing, glazing and firing will be explored. Advanced students will calculate and mix chemicals to create glazing compounds. May be taken 4 times.

## Printmaking. <br> H5630 <br> Grade level 9-12. One semester. <br> Prerequisite: Art Studio, Art I or Drawing and Design. <br> Materials fee required each semester.

Beginning students will be introduced to the various printmaking methods that may include relief printing, intaglio, lithography, silk screening and embossing processes, depending on available equipment. Advanced students will create multi-colored images and learn to register multiple prints. May be taken 4 times.

## Sculpture <br> Grade level 9-12. One semester. <br> Prerequisite: None. Art Studio, Art I or Drawing and Design recommended. <br> Materials fee required each semester.

 . H 5175This is an introductory course in basic problems of three-dimensional forms using a variety of media: paper, wood, stone, clay, wax, wire, plaster, metal and glass. Additive and subtractive techniques will be explored. May be taken 4 times.

## MUSIC

## Band I, Concert

 . H 5626
## Grade level 9-12. Two semesters.

Prerequisite: Beginning Band or Director's approval.
This course is designed to improve student's technical skills on their instrument. Students will experience an awareness of music through theory and history of band music. Students will be instructed to memorize scales in basic keys. Students will practice a balance of study books with some standard literature in preparation for advancement into concert band. Performances outside of class are required. Repeatable unlimited times.

## Band II, Symphonic

. H5631
Grade level 9-12. Two semesters.

## Prerequisite: Intermediate Band or Director's approval.

Students will experience advanced technical training through group and individualized instruction. Students will increase individual concepts of tone control, nomenclature and musical awareness through the study of band literature as well as technique materials drawn from standard study books. This course provides an increased emphasis on musical style and interpretation. Performances outside of class are required. Repeatable unlimited times.

## Band III, Wind Ensemble

. H 5641

## Grade level 9-12. Two semesters.

## Prerequisite: Audition and Director's approval.

This music ensemble is a sequel to concert band for those wishing to perform at an optimum playing level. This is a high involvement class with an emphasis on performance. Some written work and several evening performances are required during the year, including major concerts, solo and small ensemble festivals, large group festivals, area festivals and athletic events. Performances outside of class are required. Individual study is highly recommended. Repeatable unlimited times.

## Band, Jazz

## Grade level 9-12. Two semesters. <br> Prerequisite: Audition, symphonic band performance level and Director's approval.

This class offers the advanced student a chance to explore the big band sound as well as exposure to the theory of improvisation and chord reading. The group will give the student a chance to play and perform more modern forms of dance orchestration such as rock, jazz, ballad, Latin, etc. Performances outside of class are required. Enrollment is limited to standard stage band instrumentation. Other instruments are possible upon instructor's approval. Because the basic concepts of musicianship apply to all styles of
performance, students may be required to enroll in Symphonic Band in addition to Jazz Band to further their individual abilities. Repeatable unlimited times.
Choir, Intermediate
H5521
Grade level 9-12. Two semesters.

## Prerequisite: Audition or Director's approval

A sequel to the concepts of beginning choir for student who would like experience in increasing vocal and music-reading techniques through multi-part choral music and studies. Limited public performances outside of class are required. Repeatable unlimited times.

## Choir, Mixed <br> H5508 <br> Grade level 9-12. Two semesters.

Prerequisite: None.
Fundamentals of choral music will be emphasized to include note reading, part-singing, interpretation, individual and group response to direction and basics of vocal technique. Limited public performances outside of class are required. Opportunity to prepare for advanced choral classes. Repeatable unlimited times.

## Choir, Concert. <br> H5531

Grade level 9-12. Two semesters.
Prerequisite: Audition and Director's approval.
A high involvement level class with emphasis on performance for students of advanced choral ability to include increased individual musical development. Several required performances which may include major concerts, solo and small ensemble festivals and large group festivals. Increased individual study encouraged. Repeatable unlimited times.

## Choir, Treble <br> H5514 <br> Grade level 9-12. Two semesters. <br> Prerequisite: None.

A choral ensemble that will perform music written only in treble clef (SA, SSA, SSAA, etc.). Fundamentals of choral music will be emphasized to include note-reading, part-singing, interpretation, individual and group response to direction and basics of vocal technique. Required performances will include major concerts and large group festivals as well as optional participation in solo and ensemble festivals. Repeatable unlimited times.

## Choir, Tenor-Bass H5512 Grade level 9-12. Two semesters. Prerequisite: None.

A choral ensemble that will perform music written only in bass clef (TB, TTBB, etc.). Fundamentals of choral music will be emphasized to include note-reading, part-singing, interpretation, individual and group response to direction and basics of vocal technique. Required performances will include major concerts and large group festivals as well as optional participation in solo and ensemble festivals. Repeatable unlimited times.
Choir, Swing
H5541
Grade level 9-12. Two semesters.
Prerequisite: Audition, concert choir performance level and Director's approval.

An ensemble of 12 to 24 select vocalists for the express purpose of singing various musical styles; may include jazz, madrigals or
contemporary (pop). The group may perform frequently during the year at school and public functions. For advanced vocal student who is willing to participate in numerous required performances. Repeatable unlimited times.

Music Appreciation. H5718LS
Grade level 9-12 (10-12 for Peer teachers (PT)). One semester. Prerequisite: None (Peer teachers (PT) must have Instructor's approval.)

This is a class for both Life Skills/Intensive Needs (LS/IN) students and General Education (GE) students interested in working as Peer Teachers with the LS/IN population. LS/PT Music Appreciation employs music and music-related activities to reinforce creativity, expression, and appropriate social interaction with peers and adults. GE students are enrolled as Peer Teachers, and their role is to work one-on-one and in small groups with the LS/ IN students to reinforce class goals and develop meaningful peer relationships. The class is one-semester, repeatable unlimited times.

## Orchestra, String Technique <br> .H5671

## Grade level 9-12. Two semesters.

## Prerequisite: None.

This course is for students with limited or no previous experience in music. It is for students who wish to learn to play a string instrument for personal or group experience. Students will learn basic left and right hand skill on an instrument and learn to read music notes and symbols. Students will have an opportunity for group playing as well as some limited individual study. This course is a brief overview of string instruments of different types and styles of music. Repeatable unlimited times.

## Orchestra I, Preparatory. <br> H5681

## Grade level 9-12. Two semesters.

## Prerequisite: Middle school experience or Director's approval.

This course will develop playing skills beyond a beginning level. Emphasis will be on basic, fundamental techniques of string playing including, but not limited to, development of left-hand technique, introduction of a variety of bowing styles, basic theory, key signatures, scales and music history. Home practice and some written work is required. Performances outside of class are required. Individual study is encouraged. Repeatable unlimited times.

## Orchestra II, Concert . H 5683

## Grade level 9-12. Two semesters.

## Prerequisite: Middle school experience or Director's approval.

This course will develop more advanced technical skills in string playing. Emphasis will be on left-hand technique, including position work, bowing styles, tone production, basic theory, key signatures and scales. Students will become acquainted with rehearsal skills required for participation in large musical groups, through varied orchestral literature. Home practice, some written work and several evening performances are required with optional participation in Solo Ensemble Festival. Individual study is encouraged. Repeatable unlimited times.

## Orchestra III, Symphonic Strings <br> Grade level 9-12. Two semesters.

H5691

Prerequisite: Audition and Director's approval only.
This course is a sequel to Concert Orchestra for those wishing
for an optimum playing level. This is a high-involvement class, including the educational benefits of preparing for performances. Command of relevant upper positions, left-hand technique and advanced bowing skills required. Home practice, some written work and several evening performances are required, including major concerts and large group festivals and optional participation in the Solo Ensemble Festival. Individual study is encouraged. Repeatable unlimited times.

## Guitar, Beginning <br> H5810 <br> Grade level 9-12. Two semesters. <br> Prerequisite: None.

Introductory course for students who do not read music or have limited experience with the guitar. Studies include note-reading in the first position, basic chords, basic music theory, strumming and fingerstyle pattern accompaniment and an introduction to solo repertoire. Performance skills will be developed and opportunities for a recital may be offered. Repeatable for credit.

## Guitar, Intermediate <br> H5820 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Beginning Guitar or Director's approval.

A continuation of Beginning Guitar introducing note-reading in second position, chord studies including barre chords, music theory, major and minor scales, bass runs and fingerstyle patterns. Students will explore contemporary and classical literature and develop a basic solo repertoire. Performance skills will be stressed with opportunities for performance in semester recitals and optional participation in Solo Ensemble Festival. Repeatable for credit.

## Guitar, Advanced <br> H5830 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Intermediate Guitar or Director's approval.

A continuation of Intermediate Guitar introducing note-reading in the upper positions, music theory, scale studies and classical technique. Students will acquire a solo repertoire of contemporary and classical guitar pieces. Performance skills will be stressed with opportunities for performance in semester recitals, guitar ensemble and optional participation in Solo Ensemble Festival. Repeatable for credit.
Music Appreciation
H5710
Grade level 9-12. One semester.
Prerequisite: None.
This music course is open to all students and is a study of the lives, experiences and cultural pursuits of people through music. Comprehensive studies will be done on composers and musical works. Also included in the course will be many listening activities of music from its beginning to the present.

## Music Keyboard <br> H5715

Grade level 9-12. One semester.
Prerequisite: None.
Beginning Keyboard teaches keyboard skills to those who have had limited or no previous experience with a keyboard instrument. Emphasis is placed on using the electronic keyboard as an accompaniment or as a simple melodic instrument. The class also
includes chord symbols as well as theory as it applies to the instrument. May be taken 2 times.

## Music Theory \& Composition 1 <br> Grade level 9-12. One semester. Prerequisite: None.

 H5720This class is for the serious music student who might be considering music as a major in college or the interested student wanting to learn more about fundamentals of music. The class will deal with the theory of music and apply these fundamentals to the composition of traditional music for instruments of definite and indefinite pitch. Standard forms and techniques based primarily on pre-19th Century writing will be utilized. Introduction to music technology, including computer and MIDI-assisted composition/transcription, may be explored.

## Music Theory \& Composition 2

H5721

## Grade level 9-12. One semester.

Prerequisite: Music Theory and Composition I or Director's approval.

A sequel to Music Theory and Composition, with emphasis on compositional technique. An emphasis may also include advanced computer-assisted composition, transcribing and arranging. Student compositions may be arranged for small instrumental or vocal ensembles.

## Advanced Placement Music Theory

H5730
Grade level 11-12. Two semesters.
Prerequisite: Teacher recommendation (student must demonstrate thorough knowledge of music fundamentals, including advanced aural skills and sight singing abilities).

The goal of this course is to prepare each student to take the annual AP Music Theory Exam. The course is designed according to College Board AP guidelines. As described by the College Board, "The ultimate goal of an AP Music Theory course is to develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. The achievement of this goal may be best promoted by integrated approaches to the student's development of: aural skills, sight-singing skills, written skills, compositional skills and analytical skills."

## Introduction to Percussion

.H5615
Grade level 9-12. One semester.

## Prerequisite: None.

This course is for students with limited or no previous experience in music. It is for students who wish to learn to play a percussion instrument for personal or group experience. Music fundamentals will be taught as students gain experience on pitched and non-pitched percussion instruments (snare drum, bells, bass drum, timpani and auxiliary percussion instruments). Limited public performances outside of class may be required. May be taken 2 times.

## Percussion Ensemble

.H5617
Grade level 9-12. Two semesters.

## Prerequisite: Audition or Director's Approval.

This course is for students with previous percussion experience. Students will learn and perform music written for percus-
sion ensemble while functioning as the percussion section for their school's bands. Emphasis will be placed on proper playing technique for each percussion instrument, snare drum rudiments and rhythm and pitch reading skills. Performances outside of class are required. Repeatable unlimited times.

Solo and Small Ensembles
H5660
Grade level 9-12. One semester.
Prerequisite: Director's approval.
A practical laboratory course best designed for students who can orient their own course of daily study toward a musical proficiency goal predetermined by them and their instructors. A recital may be given at the end of the course. Repeatable unlimited times.

## Vocal Technique 1

H5560
Grade level 9-12. One semester.
Prerequisite: None.
Vocal Technique 1 offers individualized instruction in voice. The basic techniques of vocal production and simple art songs will be introduced. Emphasis on independent study and may include the preparation of a classroom recital with an invited audience. Individual material or music will be selected according to the ability of each student. Course develops "stage presence," builds self-confidence and improves singing technique and ability.

## Ukulele, Beginning <br> H5504 Grade level 9-12. Two semesters. Prerequisite: None.

Introductory course for students who do not read music or have limited experience with the ukulele. Studies include note-reading in the first position, basic chords, basic music theory, strumming and fingerstyle pattern accompaniment and an introduction to solo repertoire. Performance skills will be developed and opportunities for a recital may be offered. Repeatable for credit.

## Ukulele, Intermediate <br> H5505 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Ukulele, Beginning or directors approval.

A continuation of Beginning Ukulele introducing note-reading in fifth position, chord studies including barre chords, music theory, major and minor scales, accidentals, and new fingerstyle patterns. Students will explore contemporary and classical literature and develop a basic solo repertoire. Performance skills will be stressed with opportunities for performance in semester recitals and optional participation in Solo Ensemble Festival. Repeatable for credit.

## Ukulele, Advanced <br> H5503 <br> Grade level 9-12. Two semesters <br> Prerequisite: Ukulele, Intermediate or directors approval.

A continuation of Intermediate Ukulele featuring development of note-reading, chord studies and fingerstyle patterns. Students will continue to explore contemporary and classical styles and develop a solo repertoire covering both styles. Performance skills will be stressed with opportunities for permanence in recitals and optional participation in Solo Ensemble Festival. Repeatable for credit.

## Vocal Technique 2.

Grade level 9-12. One semester.

## Prerequisite: Vocal Technique 1 and/or Director's approval.

A continuation of Vocal Technique 1 with increased emphasis on advanced vocal literature and performance.

## Music Entertainment Technology

.H5509S
Grade level 9-12. One semester.
Prerequisite: none. Repeatable once, with instructor permission
This course will address the creative application of music technology in a culturally relevant manner, exploring common media production techniques, current in the modern entertainment and advertising fields. Building upon a foundation of basic piano keyboarding and music theory skills, students will explore the application of GarageBand, iTunes, iPhoto, iDVD, iMovie, Microsoft Word and Safari programs in the creation of complex, media presentations. The course also examines the appropriate copyright and safety implications associated with electronic media.

## THEATRE

## Acting I

. H 9610
Grade level 9-12. One semester. No English credit.

## Prerequisite: None.

Much of this course will center around the fundamentals of acting and theatre work. It will include an introduction to improvisation, voice technique, body movement, physical conditioning and terminology. Role and script examination and interpretation may also be included for those students who have progressed well. Performances during school hours will be required. May be taken 8 times.

## Acting II

. H9612
Grade level 10-12. One semester. No English credit.

## Prerequisite: Acting I or director's approval.

A sequel to the concepts of Acting I. Students experience advanced technical training through group and individualized instruction. Styles of acting, character analysis, audition techniques, text analysis, vocal projection and methods of acting will be studied in practical application. Performance in class and during school hours will be required. May be taken 6 times.

## Play Production

. H9630

## Grade level 9-12. One semester. No English credit.

## Prerequisite: Director's approval.

Play Production involves all aspects of producing a play or musical. The culmination of this course will be theatrical production, which includes student experiences in technical theatre and/or acting. Performance outside of class time is part of course work. May be taken 8 times.

## Stagecraft I \& II

H9645 /H9646

## Grade level 10-12. One semester each. No English credit.

## Prerequisite: None.

Stagecraft is the study of all aspects of technical theater. It will include set design and construction, lighting and sound design, costume and property design and construction, marketing the production and crew and stage managing techniques and responsibilities. May be taken 6 times.

## INTERNATIONAL

 BACCALAUREATE
## (West High School)

The IB Diploma Program is a rigorous two-year college preparatory set of classes for juniors and seniors offered at West High School only. Diploma candidates must take classes in six subject areas: English, a second language, social studies, science, math, and the arts. They must also complete the Theory of Knowledge course.

## Weighted grades and IB

All IB courses are weighted with the exception of the following: IB Literature and Performance, IB Environmental Systems and Societies, Intro to IB Math Studies, IB Math Studies, IB Mathematics Standard Level, IB History of the Americas I, IB Visual Arts I, IB Theater Arts I, and all of the IB Standard Level world language classes.

## IB Literature I \& II

H0501IB/H0502IB
Grade level 11-12. Four semesters.
Prerequisite: Honors English I and/or II recommended.
Through the study of a wide range of literature, including texts in translation, the course encourages students to appreciate the artistry of literature and to develop an ability to reflect critically on their reading. Works are studied in their literary and cultural contexts, through close study of individual texts and passages, and by considering a range of critical approaches.

## IB History of the Americas I \& II. . . . . . . . H3720IB/H3633

Grade level 11-12. Four semesters.
Prerequisite: Honors World History or teacher recommendation. First year: US History credit; Second year: Economics and Government credit.

This course is designed to develop in students a lasting interest in and appreciation for the countries in the Western Hemisphere and includes a comparative study the histories of Canada, United States and Latin America.

## Introduction to IB Math Studies

Grade level 11-12. Two semesters.
Prerequisite: Informal Geometry
This course will introduce students to the topics of linear relations, quadratic functions, systems of equations, polynomial functions, probability, statistics and financial mathematics.

## IB Mathematics Studies I \& II. H1800/H1802

## Grade level 11-12. Four semesters.

Prerequisite: Geometry or Informal Geometry
This course will cover linear relations, quadratic functions, rational and inverse functions, grouping rational functions, systems of equations, complex number system, polynomial function, exponential and logarithmic functions, trigonometry, probability, statistics, financial mathematics and introduction to differential calculus.

[^3]identities, inverses and their applications, vectors, and complex numbers. The course prepares students to study calculus and statistics and probability. Students in the course complete a written project called "mathematical exploration."

## IB Mathematics Higher Level I \& II. <br> H1808/H1810

## Grade level 11-12. Four semesters.

## Prerequisite: Pre-Calculus

This course covers functions, graphs, limits, derivatives and integrals by including the study of parametric equation, polar functions and vector analysis.

IB Biology I \& II
H2248/H2250
Grade level 11-12. Four semesters.
Prerequisite: Biology, Chemistry strongly recommended.
This course will give students a broad and comprehensive experience in the experimental subject of biology, a science based on the use of the scientific method to answer the universal conundrums faced by all living things, with the hope of increasing the appreciation of and respect for life.

## IB Chemistry I \& II.

. H2448/H2450

## Grade level 11-12. Four semesters.

## Prerequisite: Chemistry and Algebra II, Biology strongly

 recommended.This course will give students a broad and comprehensive experience in the experimental subject of chemistry, a science based on the use of the scientific method to answer questions about the composition, structure and properties of all the things around us.

## IB Environmental Systems \& Societies . H 2288

## Grade level 11-12. Two semesters.

## Prerequisite: Chemistry or Conceptual Chemistry strongly

 recommended.This one-year class is an interdisciplinary science course whose prime intent is to provide students with a coherent and scientific perspective on the environment, drawing attention to the students' relationship with their environment and the significance of choices and decisions they make in their lives.
IB Physics I \& II. . . . . . . . . . . . . . . . . . H2541IB/H2542IB Grade level 11-12. Four semesters. Prerequisite: Algebra II, must take IB Physics I before taking IB Physics II

This course offers a study of the most fundamental of the experimental sciences, and it seeks to explain the universe itself. Topics covered include physical measurement, mechanics, thermal physics, waves, electricity and magnetism, atomic and nuclear physics, measurement and uncertainties, and quantum physics.

> IB Theatre Arts I \& II .
> H9641/H9643
> Grade level 11-12. Four semesters.
> Prerequisite: Acting I or Play Production or teacher approval.
> Theatre Arts will follow a curriculum emphasizing international themes, styles and literature and will be structured around the five elements: performing skills, world theatre skills, practical play analysis, theatre production and individual project. The overriding goal of the program is for students to come away with an understanding of the nature of theatre, its place and its contribu-
tions to societies all over the world and to become lifelong theatre goers and participants.

## IB Music

H5723
Grade level 11-12. Four semesters.
Prerequisite: Orchestra, Band, or Choir or teacher approval.
Through in-depth analysis of representative works, the study of genres and styles found around the world and concentrated effort in solo performance, group performance, or composition, students will gain an educated insight into music and enhance their personal skills as musicians.

## IB Visual Arts I \& II <br> Grade level 11-12. Four semesters. <br> Prerequisite: Art Studio or Drawing and Design or teacher approval.

H5019/H5021

The overall goal of the course is for students to develop a body of work, which represents their individual research and development of artistic expression.
IB French Standard Level (SL) I \& II (intermediate low to intermediate high).

## H1844IB/H1845IB

 Grade level 9-12. Four semesters.Prerequisite: French III or teacher recommendation.
This course focuses on language acquisition through the study and use of a wide range of written and spoken material (from everyday oral exchanges to literary texts) related to Frenchspeaking cultures. Students develop the skills and inter-cultural understanding required to communicate successfully in an environment where French is spoken, thus moving beyond the confines of the classroom to expand their awareness of the world. The course-structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology)-approaches the acquisition of language through contextual meaning. With this focus on the core topics and selected options, the course develops students' receptive skills (understanding authentic written texts and straightforward oral interactions), productive skills (communicating orally with detail and accuracy and writing texts for a variety of audiences) and interactive skills (engaging in conversations and demonstrating inter-cultural engagement).

## IB French Higher Level (HL) I \& II (pre-advanced to advanced) <br> H1846IB/H1847IB Grade level 11-12. Four semesters. <br> Prerequisite: IB French SLI, II or teacher recommendation.

As with the IB French SL courses, this course is structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology). In terms of receptive skills, students will work to understand complex authentic written text, including the study of two works of literature, and complex oral interactions. In terms of productive skills, students will communicate orally with detail and accuracy to explain a point of view, to relate experiences and events, and to examine ideas and concept. They will also produce clear texts appropriately utilizing register, style, rhetorical devices and structural elements as well as producing convincing
written arguments. In terms of interactive skills, students will learn to participate in spontaneous conversations that are coherent and varied and that demonstrate inter-cultural engagement.

## IB German Standard Level (SL) I \& II

(intermediate low to intermediate high). . . . . H1840IB/H1841IB Grade level 9-12. Four semesters.

## Prerequisite: German III or teacher recommendation.

This course focuses on language acquisition through the study and use of a wide range of written and spoken material (from everyday oral exchanges to literary texts) related to Germanspeaking cultures. Students develop the skills and inter-cultural understanding required to communicate successfully in an environment where German is spoken, thus moving beyond the confines of the classroom to expand their awareness of the world. The course-structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology)-approaches the acquisition of language through contextual meaning. With this focus on the core topics and selected options, the course develops students' receptive skills (understanding authentic written texts and straightforward oral interactions), productive skills (communicating orally with detail and accuracy and writing texts for a variety of audiences) and interactive skills (engaging in conversations and demonstrating inter-cultural engagement).

## IB German Higher Level (HL) I \& II <br> (pre-advanced to advanced) <br> H1842IB/H1843IB Grade level 11-12. Four semesters. <br> Prerequisite: IB German SL I, II or teacher recommendation.

As with the IB German SL courses, this course is structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology). In terms of receptive skills, students will work to understand complex authentic written text, including the study of two works of literature, and complex oral interactions. In terms of productive skills, students will communicate orally with detail and accuracy to explain a point of view, to relate experiences and events, and to examine ideas and concept. They will also produce clear texts appropriately utilizing register, style, rhetorical devices and structural elements as well as producing convincing written arguments. In terms of interactive skills, students will learn to participate in spontaneous conversations that are coherent and varied and that demonstrate inter-cultural engagement.

## IB Spanish Standard Level (SL) I \& II

(intermediate low to intermediate high). . . . . H1835IB/H1836IB Grade level 9-12. Four semesters.

## Prerequisite: Spanish III or teacher recommendation.

This course focuses on language acquisition through the study and use of a wide range of written and spoken material (from everyday oral exchanges to literary texts) related to Spanishspeaking cultures. Students develop the skills and inter-cultural understanding required to communicate successfully in an environment where Spanish is spoken, thus moving beyond the confines of the classroom to expand their awareness of the world.

The course-structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology)-approaches the acquisition of language through contextual meaning. With this focus on the core topics and selected options, the course develops students' receptive skills (understanding authentic written texts and straightforward oral interactions), productive skills (communicating orally with detail and accuracy and writing texts for a variety of audiences) and interactive skills (engaging in conversations and demonstrating inter-cultural engagement).

## IB Spanish Higher Level (HL) I \& II (pre-advanced to advanced) <br> H1837IB/H1838IB Grade level 11-12. Four semesters. <br> Prerequisite: IB Spanish SLI, II or teacher recommendation.

As with the IB Spanish SL courses, this course is structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology). In terms of receptive skills, students will work to understand complex authentic written text, including the study of two works of literature, and complex oral interactions. In terms of productive skills, students will communicate orally with detail and accuracy to explain a point of view, to relate experiences and events, and to examine ideas and concept. They will also produce clear texts appropriately utilizing register, style, rhetorical devices and structural elements as well as producing convincing written arguments. In terms of interactive skills, students will learn to participate in spontaneous conversations that are coherent and varied and that demonstrate inter-cultural engagement.

## IB Russian Standard Level (SL) I \& II

(intermediate low to intermediate high)

## H1848IB/H1849IB

## Grade level 9-12. Four semesters.

## Prerequisite: Russian III or teacher recommendation.

This course focuses on language acquisition through the study and use of a wide range of written and spoken material (from everyday oral exchanges to literary texts) related to Russianspeaking cultures. Students develop the skills and inter-cultural understanding required to communicate successfully in an environment where Russian is spoken, thus moving beyond the confines of the classroom to expand their awareness of the world. The course-structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology)-approaches the acquisition of language through contextual meaning. With this focus on the core topics and selected options, the course develops students' receptive skills (understanding authentic written texts and straightforward oral interactions), productive skills (communicating orally with detail and accuracy and writing texts for a variety of audiences) and interactive skills (engaging in conversations and demonstrating inter-cultural engagement).
IB Russian Higher Level (HL) I \& II
(pre-advanced to advanced) . . . . . . . . . . . . H1850IB/H1851IB Grade level 11-12. Four semesters.

## Prerequisite: IB Russian SL I, II or teacher recommendation.

As with the IB Russian SL courses, this course is structured around three core topics (communication and media, global issues, social relationships) and any two of the following five options (cultural diversity, customs and traditions, health, leisure, science and technology). In terms of receptive skills, students will work to understand complex authentic written text, including the study of two works of literature, and complex oral interactions. In terms of productive skills, students will communicate orally with detail and accuracy to explain a point of view, to relate experiences and events, and to examine ideas and concept. They will also produce clear texts appropriately utilizing register, style, rhetorical devices and structural elements as well as producing convincing written arguments. In terms of interactive skills, students will learn to participate in spontaneous conversations that are coherent and varied and that demonstrate inter-cultural engagement.

## IB Theory of Knowledge I \& II <br> H3811/H3812

## Grade level 11-12. Three semesters.

Prerequisite: Enrollment in IB diploma program.
This one-year class will provide a forum for students to critically reflect upon their education. The goal is to help them to become mindful learners in two important ways: first, to be able to see the connections between the disparate fields of their six core subjects and second, to begin to answer for themselves the questions of epistemology.

## JROTC

PE Waiver for JROTC Participation: Upon successful first semester completion of JROTC, students will receive a. 5 Elective credit. Upon successful second semester completion of JROTC, students will receive a .5 Elective and a waiver of .5 credit of their PE requirement. Upon successful third semester completion of JROTC, students will receive a 5 Elective credit. Upon successful fourth semester completion of JROTC, students will receive a .5 Elective credit and a waiver of .5 credit of their PE requirement. Upon successful completion of 2 years of JROTC, students will receive 2 elective credits and a waiver of 1.0 credits of their PE requirement. PE waivers are allowed by participation in JROTC programs and are not contingent upon participation in summer JROTC camps.

## AFJROTC I.

 H9752Grade level 9-12. Two semesters.

## Prerequisite: None.

Provides the student interested in military academy appointments, ROTC scholarships, enlisted military service after high school, or civilian aerospace-oriented careers with opportunities to develop leadership and management skills, communications techniques and instructional capabilities in the framework of a role-playing leadership laboratory. Drill and ceremony, military bearing, citizenship training and patriotism prepare the cadets for participation in community service opportunities.

## AFJROTC II

 . H 9754
## Grade level 9-12. Two semesters.

## Prerequisite: JROTC I.

The student will understand and apply basic principles of
aerodynamics, propulsion and navigation as they relate to the aerospace environment. Cadets assume greater responsibility in running the corps as assistants to the staff officers during the second year. Successful completion of the two years of Aerospace Education entitles a student to the AFJROTC Certificate of Training with educational and career benefits. One-half science credit may be earned for the completion of AFJROTC II.
AFJROTC III.
H9756
Grade level 9-12. Two semesters.
Prerequisite: JROTC I-II (recommended but not required).
Students will understand and be able to interpret the role of the United States in international space as man expands his research and travel to other planets. Third year cadets organize and administer the corps through command and staff assignments. Outstanding cadet leaders receive national recognition and possible selection for military academies or ROTC scholarships. Selected volunteers may participate in cooperative career training program at Elmendorf Air Force Base.
AFJROTC IV
H9758
Grade level 9-12. Two semesters.
Prerequisite: JROTC III.
A survey of the relations between nations of the world, the elements of national power and the nature and development of U.S. Air Force doctrine. Also included are instructional units on the foundations of leadership, communicative skills, survival and the obligations and opportunities of the military services.

## Army JROTC I

H9760
Grade level 9-12. Two semesters.
Prerequisite: Must be 14 by the end of 9 th grade. No record of conviction by civil court.

First year students are given introduction to leadership development, consisting of introduction to Army JROTC organization, personal hygiene, Red Cross first aid/AED/CPR certification, introduction to map reading, marksmanship safety and basic marksmanship, U.S. Constitution and Bill of Rights, unlocking your potential, leadership and followership development and drill.

## Army JROTC II

H9762

## Grade level 9-12. Two semesters.

Prerequisite: Completion of Army JROTC I.
Second year students are given added instruction in organizational skills. Intermediate marksmanship, intermediate methods of instruction, leadership development and drill, introduction to leadership theory, participation in service learning, team building skills, study of character values, intermediate map reading. Recertification in first aid/CPR/AED and development of communication skills.

## Army JROTC III <br> . H9764

Grade level 9-12. Two semesters.
Prerequisite: Completion of Army JROTC II.
Third year students are given applied leadership, consisting of psychology of leadership, seminar in leadership and management, seminar in leadership ethics and values, leadership and small unit leader problems, leadership development and drill, service learning opportunities, applied methods of instruction, recertification
in first aid/CPR/AED, exploration of careers, economics and the financial planning process.
Army JROTC IV . . H 9766
Grade level 9-12. Two semesters. Prerequisite: Completion of Army JROTC I, II, \& III.

Fourth year students are given advanced leadership consisting of conflict resolution and application of leadership principles. Leadership Lab where fourth-year cadets are required to coordinate and organize a service learning project, practical application of leadership in the planning and the operation of all unit staff functions, advanced instruction in written and oral communication, recertification in first aid/CPR/AED and practical application of methods of instruction.

## Naval Science/Leadership I

. H9768
Grade level 9-12. Two semesters.

## Prerequisite: None.

An introduction to developing leadership, teamwork and high standards of personal conduct and appearance. The subject taught will cover six major areas: history of NJROTC, military drill, citizenship, uniforms, laws-authority-responsibility, military customs and courtesies.
Naval Science/Leadership II
. H 9770
Grade level 9-12. Two semesters.

## Prerequisite: None.

A continuation of leadership development, war at sea, how the U.S. Navy functions, naval strategy and tactics, maritime geog-raphy- oceanography- meteorology-astronomy and aeronautical science.
Naval Science/Leadership III . H 9772
Grade level 9-12. Two semesters. Prerequisite: None.

There is an increased emphasis on leadership responsibilities by assuming positions of leadership as cadet officers. The subject taught will emphasize sea power, national security, laws of the sea, shipboard life, rules of the road, and navigation-time.

Naval Science/Leadership IV. . H 9774

## Grade level 10-12. Two semesters.

## Prerequisite: None.

This year culminates the cadets' leadership roles by having them be responsible for the direction of the unit. The curriculum will emphasize ethics and morals, case studies, positions of authority and the responsibility for others.

## LANGUAGE ARTS

English I.
. H0120
Grade level 9 . Required. Two semesters.

## Prerequisite: None.

This full-year required course incorporates a thematic approach with genre studies. The texts, activities, and assessments have been designed to ensure student growth toward meeting the Common Core State Standards in the areas of reading literature, reading informational text, writing, speaking, listening, and language. Students will read a variety of both world and American literature with an emphasis on textual analysis, including drawing infer-
ences, analyzing main ideas, and distinguishing fact and opinion. Writing, research, vocabulary, and grammar instruction are integrated in every unit.

## Honors English I. <br> H 012 H

Grade level 9 . Two semesters.
Prerequisite: Language Arts teacher recommendation required.
The Honors English I program is planned for students who demonstrate academic ability and specific interests in an accelerated curriculum in Language Arts. The course parallels the established curriculum of English I; however, Honors English I covers material more rapidly and includes additional selections. Students will read and analyze the classics of world literature and focus on academic writing techniques.

## English I Online. . . . . . . . . . . . . H01200LS1/H0120OLS2 Grade level 9. Required. One semester each. Prerequisite:. None.

This online course incorporates an integrated approach to the teaching of reading and writing. Students read a variety of fiction and nonfiction world literature with an emphasis on literary analysis, including drawing inferences and analyzing main ideas. Students are taught the writing process and write in varying modes and for different purposes and audiences throughout the year. Grammar and vocabulary skills are integrated throughout each unit.

## English II - World Literature <br> H0122 <br> Grade level 10. Required. Two semesters. <br> Prerequisite: None.

This full-year required course incorporates an integrated approach to the teaching of listening, speaking, reading and writing to meet the Common Core State Standards. Students read a variety of fiction and nonfiction world literature with an emphasis on literary analysis, including drawing inferences and analyzing main ideas; media presentations from a variety of perspectives; and dramatic interpretations from plays and excerpts. Students are taught writing process and write in varying modes and for different purposes and audiences throughout the year. Grammar and vocabulary skills are integrated throughout each unit. The fundamentals of formal speech, both to persuade and inform, are also important elements of this world literature course.

## Honors English II - World Literature. <br> H 0122 H

## Grade level 10. Two semesters.

## Prerequisite: Language Arts teacher recommendation required.

Honors English II is intended for students who demonstrate academic ability and specific interests in an accelerated curriculum in Language Arts. The course parallels the established curriculum for English II; however, Honors II covers materials more rapidly and includes additional selections. In-depth study of literary classics and academic writing, research skills, oral expression and listening will be stressed.

## English II - <br> World Literature Online . . . . . . H0122OLS1/ H0122OLS2 <br> Grade level 10. Required. One semester each. <br> Prerequisite: None.

This online course incorporates an integrated approach to the
teaching of reading and writing with a focus on world literature. This full-year required course incorporates an integrated approach to the teaching of listening, speaking, reading and writing to meet the Common Core State Standards. Students read a variety of fiction and nonfiction world literature with an emphasis on literary analysis, including drawing inferences and analyzing main ideas; media presentations from a variety of perspectives; and dramatic interpretations from plays and excerpts. Students are taught writing process and write in varying modes and for different purposes and audiences throughout the year. Grammar and vocabulary skills are integrated throughout each unit. The fundamentals of formal speech, both to persuade and inform, are also important elements of this world literature course.

## English III- US Literature

 .H0124
## Grade level 11. Required. Two semesters. Prerequisite: None

English III US Literature: This full-year required course focuses on American literature and how it has helped shape our nation. Students will explore and study great literary works from throughout United States' history including Early American, Civil War, Great Depression and Civil Rights eras. In addition to reading a variety of rich fiction and informational texts, students will improve their writing, critical thinking, speaking, vocabulary, and grammar skills through lessons aligned to the Common Core State Standards. Sharpening their skills through performance tasks such as on demand and extended writing and formal and informal presentations will prepare students to achieve career and college readiness.

## English III -

## US Literature Online . . . . . . . . . H0124OLS1/H0124OLS2 Grade level 11. Required. One semester each. Prerequisite: None

English III US Literature: This full-year online required course focuses on American literature and how it has helped shape our nation. Students will explore and study great literary works from throughout United States' history including Early American, Civil War, Great Depression and Civil Rights eras. In addition to reading a variety of rich fiction and informational texts, students will improve their writing, critical thinking, speaking, vocabulary, and grammar skills through lessons aligned to the Common Core State Standards. Sharpening their skills through performance tasks such as on demand and extended writing and formal and informal presentations will prepare students to achieve career and college readiness.

## English IV <br> Grade level 12. Required. Two semesters. <br> Prerequisite: None

 .H0126English IV is a full year, 12th grade thematic course including four units of study: Morality, Citizenship, Social Justice, and Nature \& Environment. These universal themes are intended to engage students in the critical thinking they must practice to become active participants in their communities. The course meets the Common Core State Standards and focuses on American literature, including seminal U.S. political documents, and world literature, including Shakespeare and other important
authors. As the culminating high school English course, the primary writing focus is on expository and argumentative writing, including researched arguments, multimedia presentations, and essays in the major patterns of exposition. Grammar and vocabulary are integrated with the reading, writing, speaking and listening content within each thematic unit in order to ensure instruction of all standards.

## English IV Online . . . . . . . . . . . H0126OLS1/H0126OLS2 Grade level 12. Required. One semester each. Prerequisite: None

English IV is a full year, 12th grade thematic online course including four units of study: Morality, Citizenship, Social Justice, and Nature \& Environment. These universal themes are intended to engage students in the critical thinking they must practice to become active participants in their communities. The course meets the Common Core State Standards and focuses on American literature, including seminal U.S. political documents, and world literature, including Shakespeare and other important authors. As the culminating high school English course, the primary writing focus is on expository and argumentative writing, including researched arguments, multimedia presentations, and essays in the major patterns of exposition. Grammar and vocabulary are integrated with the reading, writing, speaking and listening content within each thematic unit in order to ensure instruction of all standards.

## English 9-12 <br> H0102SP <br> Grade level 9 . Required. Two semesters. <br> Prerequisite: IEP.

Modified curriculum for English I as required by students' IEP.
English 9-12 AC 1
H0012LS1
Grade level 9-12. Required. One semester.
Prerequisite: IEP.
This course teaches functional skills in the areas of listening, speaking, reading and writing moving toward increased independence. Alternate curriculum for students enrolled in a Life Skills 1 class as required by their IEP. This course is repeatable.

## English 9-12 AC 2. <br> H0012LS2 <br> Grade level 9-12. Required. One semester. <br> Prerequisite: IEP.

This course teaches functional skills in the areas of listening, speaking, reading and writing moving toward increased independence. Alternate curriculum for students enrolled in a Life Skills 1 class as required by their IEP. This course is repeatable.

## English 9-12 I <br> H0102SP <br> Grade level 9 . Required. Two semesters. <br> Prerequisite: IEP.

This full-year required course incorporates an integrated approach to the teaching of listening, speaking, reading and writing. Students are instructed in a process approach to reading and writing. Individual and group verbal activities are included to help students work effectively with others. Students practice reading a variety of types of fiction and nonfiction literature and writing for different purposes and audiences. Emphasis is on improving reading and writing skills in practical and creative situ-
ations. This course offers a thematic approach with genre studies. Modified curriculum for English I, as required by students' IEP.

## English 9-12 II

H0103SP
Grade level 10. Required. Two semesters.
Prerequisite: IEP.
This course incorporates an integrated approach to the teaching of listening, speaking, reading and writing with a focus on world literature. World authors representing various literary genres, themes and areas will be used as a basis for understanding and appreciating the world at large. Students will participate in both oral and written presentations. Composition will emphasize a structured study of expressive and expository writing using a writing process. Modified curriculum for English II, as required by students' IEP.

## English 9-12 III

H0104SP
Grade level 11 Two semesters.
Prerequisite: IEP.
This full-year course incorporates an integrated approach to exploring American and world literature through numerous literary works, both classic and contemporary, with a focus on identified modes of writing in support of quarterly themes. Students will engage in critical readings, written and spoken responses, and creative and technical projects using print and web 2.0 tools. The following themes provide a framework for curriculum that promote challenge and accessibility while being relevant: Moral Ambiguity: Good and Evil, Nature: Connections and Conflicts, Justice: Social and Economic, and Expression: Voice and Vision. Students will complete a research paper during the second semester. This course fulfills the writing requirement for graduation. Modified curriculum for English 11, as required by students' IEP.

## English 9-12 IV

H0105SP

## Grade level 12. Two semesters.

Prerequisite: IEP.
This course is designed for students in grade 12 who are on an IEP and need to develop or improve strategies and skills for reading and writing technical materials, to learn to read and write more efficiently in all content areas and to learn how to access and organize information for successful school-to-career experiences. Modified curriculum for English 12, as required by students' IEP.

## LANGUAGE ARTS ELECTIVES

## Advanced Placement Literature

and Composition H0146
Grade level 11-12. Two semesters.
Two semesters of this course will fulfill the composition credit required for graduation.

## Prerequisite: None.

Advanced Placement Literature and Composition, a col-lege-level course, provides an in-depth study of several major literary works and prepares students for the AP Exam in Literature and Composition, a means of obtaining advanced placement in English at most colleges. Writing is an integral part of the course and exam, and writing assignments focus on the critical analysis
of literature and include expository, analytical, and argumentative essays. Reading in this course is both wide and deep, building upon the reading done in previous English courses. Students read works from several genres, including poetry and drama, and periods, from the sixteenth to the twenty-first century.

## Advanced Placement Literature and Composition Online . . . . . H0146OLS1/H0146OLS2 Grade level 11-12. One semester each. Two semesters of this course will fulfill the composition credit required for graduation. <br> Prerequisite: None.

This is an online course. Advanced Placement Literature and Composition, a college level course, provides an in-depth study of several major literary works and prepares students for the AP Exam in Literature and Composition, a means of obtaining advanced placement in English at most colleges. Writing is an integral part of the course and exam, and writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Reading in this course is both wide and deep, building upon the reading done in previous English courses. Students read works from several genres, including poetry and drama, and periods, from the sixteenth to the twenty-first century.

## Advanced Placement Language and Composition <br> H0245 <br> Grade level 11-12. Two semesters. <br> Two semesters of this course will fulfill the composition credit required for graduation. <br> Prerequisite: None.

Advanced Placement Language and Composition is a col-lege-level course that assists students in becoming skilled readers of literature and writers who compose for a variety of purposes. This course also prepares students for the AP Exam in Language and Composition, a means of obtaining advanced placement in English at most colleges. An intensive analysis of literature will develop students' awareness of the use of language and influence their writing.

## Advanced Placement Language and Composition Online . . . . . .H0245OLS1/H0245OLS2 Grade level 11-12. One semester each. Two semesters of this course will fulfill the composition credit required for graduation. <br> Prerequisite: None.

This is an online course. Advanced Placement Language and Composition is a college level course that assists students in becoming skilled readers of literature and writers who compose for a variety of purposes. This course also prepares students for the AP Exam in Language and Composition, a means of obtaining advanced placement in English at most colleges. An intensive analysis of literature will develop student' awareness of the use of language and influence their writing.

[^4]This course acquaints students of all beliefs with the history,
culture, and literature of the Bible. Students will read selections from the Old Testament that include history, poetry, prophecy, law, and tales. Readings from the New Testament and the Apocrypha will be included as time permits. Additionally, students will read contemporary literature making references to Biblical stories and themes. This course will require extensive reading, writing and discussion.

## Children's Literature. . H 0450 <br> Grade level 11-12. One semester. Prerequisite: None.

Students will explore the history of children's literature and critically analyze the changes overtime through awards, popular trends, and style. Students are expected to develop skills in recognizing the following in children's literature: genre traits, characteristics of classics, art forms and illustration, varied formats, literature devices and writer's craft. This course may also include the study and practical application of those skills through performances, projects, and daily written response. Students will also learn to discern and identify various child developmental stages and relate to specific genre and/or literature. A variety of genres and various novels (chapter books), short stories, folk tales, picture books and poems will be read, discussed and used for models of writing. Children's literature websites and author websites will be online texts that contribute to the richness of this course. Performance assessments may include but are not limited to the creation of podcasts, contributions to class blogs or wikis, and time spent reading to children.

## Classical Mythology <br> . H 0435

## Grade level 11-12. One semester.

## Prerequisite: None.

Classical Mythology traces the human quest to understand our world and mankind's place in the universe through the exploration of Greek and Roman myths. Students will read ancient texts, plays, epics, poetry and modern literature containing allusions to classical mythology. Topics of study will include the historical and theoretical basis of myths and archetypes, including heroes, monsters, quests, and cautionary tales. The course serves as a historical foundation for ideas and attitudes of contemporary culture and explores how references to mythology permeate our modern world through art, literature and music. Classical Mythology will include extensive reading, discussion, creative and analytical writing, and oral presentations.

## Contemporary Literature <br> Grade level 11-12. One semester. <br> Prerequisite: None.

 H0411Contemporary Literature is a study of representative works of literature from the last quarter of the twentieth century to the present. Coursework will include the reading and analysis of multiple contemporary works or genres (e.g. poetry and drama, fiction and nonfiction, print and non-print media) that are teacher and student selected. Students will also explore the biographical background, influences and styles of various authors and their contributions to the changing social and intellectual cultures in America. In addition to the reading and discussion of multiple works, students will also write extensively.

Composition, Intermediate
H0221
Grade level 11-12. One semester.
Prerequisite: None
Intermediate Composition requires students to read and write around complex literary and informational texts. Students will compose pieces based on three genres: writing to argue, inform/ explain, and narrate (convey experiences). Students conduct short as well as more sustained research projects based on focused questions. Students will learn to integrate and synthesize multiple print and digital sources. Emphasis will be on identifying and developing the skills of flexibility, concentration, and fluency in order to produce quality on-demand and extended compositions. Intentional focus will be on supporting students on their way to creating coherent and well-structured texts that contain elements of structure, detail, and craft to accomplish their communicative purposes.

## Composition, Advanced. <br> . H 0222 Grade level 11-12. One semester. Prerequisite: None

Advanced Composition requires students to read and write around complex literary and informational texts. Students will compose texts based on three genres: writing to argue, inform/ explain, and narrate (convey experiences). Students build and refine research, rhetorical, stylistic, and editing skills. An emphasis is placed on writing for on-demand situations, enhancing the overall rhetorical power and communicative purposes of texts, and writing routinely over extended time frames. Skills previously developed in Intermediate Composition will be directly transferable as students in Advanced Composition will be expected to independently produce rhetorically powerful, high-quality, firstdraft texts under tight deadlines, as well as independently revisit and revise writing over multiple drafts
Debate
H0520
Grade level 9-12. One semester: This course is offered as English elective credit for the first semester and general elective credit for succeeding semesters.

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Prerequisite: None.
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Debate offers students instruction in persuasive techniques one quarter and formal debate the other quarter. While learning persuasive techniques students study argumentation, rhetoric, and practical applications such as marketing and advertisement. These skills may be applied in projects such as mock trials, congressional hearings, newscasts, and various technical presentations. For formal debate, students will learn about Lincoln-Douglas, policy, crossfire, or parliamentary debate and participate in a debate representing either the affirmative or negative side of a case after preparing for both sides.
Digital Composition
H0252
Grade level 11-12. One semester.
Prerequisite: None.
The curriculum supports a venue for students to explore and apply knowledge of digital tools and related resources as a means for increased media literacy, written expression and publishing. Students will practice the process and art of composition and then transform select pieces into one of many electronic forms, such as
movies, podcasts, blogs, electronic surveys, and websites. Essays, articles, and literature selections are integrated throughout the unit plans. A critical review of websites (content and design) is another component of this class, as well as an examination of the ethical responsibilities of electronic publishers.

Film As Literature H0396
Grade level 9-12. One semester. Prerequisite: None.

Students will develop a critical appreciation of film as a literary genre while exploring how films communicate and affect the viewer and society. Movies from various genres and time periods will be viewed and analyzed using conventional literary devices such as theme, plot, diction, character, mood, setting, and style. Students will respond to and analyze films through extensive writing, discussion, and projects, including written essays, learning logs, storyboards, and film writing and production. In addition, students will build an understanding of visual literacy and the history of film as a literary genre.

## Gothic Literature Online

H0372OL

## Grade level 9-12. One semester.

## Prerequisite: None

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This online course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

## Humanities

 . H 0415Grade level 11-12. One semester.

## Prerequisite: None.

Humanities students study the nature of being human in a series of four units: human rights and cultures, art history, innovative ideas, and modes of self-expression. Students participate in simulations, art and music interpretations, technology projects, and discussions about human ideas and current world events. Contributions to humanity are addressed as a culminating event for the class. This course requires many short reading selections, written responses and research, performances, and presentations.

## Journalism 1: Theory and Practice

. H 0244

## Grade level 9-12. One semester.

## Prerequisite: None.

Journalism 1 is a reading and writing course for highly motivated students. This course will explore and practice various writing styles used in a journalism career. Emphasis will be placed on grammar, usage and style according to the AP Stylebook. Proofreading and editing skills will be practiced. The class will develop research, interviewing and documentation skills used in creating well-written, balanced stories. Readings will include selected models of journalistic writing, biographies and historically significant publications. Writing may include, but is not
limited to analysis, news, feature, editorial and sports writing. Students will have opportunities to submit pieces for publication.

## Journalism 2: Writing for Publication <br> . H 0761 <br> Grade level 10-12. One semester: This course is offered as English credit for the first semester and elective credit for succeeding semesters.

Prerequisite: Completion of Journalism 1 with a grade of " B " or better and/or instructor's permission.

Journalism 2 is an advanced reading and writing course for highly motivated students who wish to continue learning and practicing journalistic writing. This course is designed to produce and manage school-wide publications. Students will continue to improve writing and editing skills learned in Journalism 1 as they study graphics, layout, web design, desktop publishing and new trends in journalistic publishing. Students will practice a variety of journalism skills in this real-world setting such as advertising sales, layout and design, photography composition, managerial and editorial skills, investigative reporting and legal ethics and responsibilities. Readings will include models of journalistic writing, biographies and significant current events and publications. Grammar, usage, proofreading and editing skills will be emphasized. Assignments will be prepared in AP Stylebook format for publication. The ability to work responsibly and individually to meet deadlines is essential and expected. Teamwork is expected. Students will write in different reporting styles such as news, feature, sports and editorial writing.

## Reading 9-12 AC <br> H0015LS <br> Grade level 9-12. Two semesters. Prerequisite: IEP.

This course provides instruction in functional reading skills to teach independence in the community. Alternate curriculum for students enrolled in a Life Skills class as required by their IEP. English credit up to two times, and unlimited for general elective.

Science Fiction and Fantasy
. H0455
Grade level 11-12. One semester.
Prerequisite: None.
Science Fiction and Fantasy is a course that explores the outer limits of the imagination and the far-reaching possibilities for the human race and technology through literature. Students will read and discuss classic as well as contemporary novels and short stories in these genres. This course emphasizes science fiction and fantasy genres as vehicles for social criticism and stimulation of thought about technological development and psychological, societal and political organization. Students will write in various modes using multimedia tools.

## Science Fiction \& Fantasy Online

H0455OL

## Grade level 11-12. One semester.

Prerequisite: None.
Science Fiction and Fantasy is an online course that explores the outer limits of the imagination and the far-reaching possibilities for the human race and technology through literature. Students will read and discuss classic as well as contemporary novels and short stories in these genres. This course emphasizes science fiction and fantasy genres as vehicles for social criticism and stimulation of thought about technological development and
psychological, societal and political organization. Students will write in various modes using multimedia tools.
Shakespeare . H 0460
Grade level 11-12. One semester.

## Prerequisite: None.

This course illuminates selected works of Shakespeare and provides an introduction to the Elizabethan era. When you read Shakespeare do you think it's all "Greek to me"? Then don't worry; you're already quoting him (Julius Caesar, III). This course is a fun, yes fun, introduction to Shakespeare, his work, his times, and his continuing impact. Students actively engage in producing Shakespeare's works and creative responses to Shakespeare's works. They may write (journals, essays, blogs); discuss/seminar (in small groups and large, online or in person); recite (sonnets, speeches); perform (scenes, acts, plays); create (electronic magazines/newspapers, web pages, original scripts and/or poems). The goal is to help students learn to enjoy Shakespeare (or any challenging literature) as they learn the skills of critical reading, listening and writing.

## Sports \& Mystery

. H 0461

## Grade level 11-12 One semester.

## Prerequisite: None.

This semester course is a rigorous examination of the Sports and Mystery literary genres. Sports are a catalyst for cultural change while mysteries require critical thinking and deductive reasoning. Together, they will be studied as lenses to reveal human character and values. Selections will incorporate contemporary and classic novels, short stories, magazine articles, poetry, film, and other media. Along with reading and discussion, students will write extensively, both analytically and creatively. Ultimately, this course explores the complex roles sports literature and mysteries play in the world of literature.

## Strategic Writing <br> . H9686 <br> Grade levels 9-12. One semester. <br> Prerequisite: None. <br> This course is offered as English elective credit for the first semester and general elective credit for succeeding semesters.

Strategic Writing is designed to address the literacy needs of students who want to achieve greater writing success in high school and beyond. Assessment data will identify areas for skill and strategy development to allow teachers to individualize and differentiate instruction. Students will write daily to hone skills and develop fluency. Instruction will focus on the writing process, including pre-writing, drafting, revision, and editing. Student will write in various genres and styles; analyze and improve sentence, paragraph, and essay structure; and work on proper grammar, spelling, and punctuation. They will read regularly and use technology tools to support the writing process.

## Technical Writing in the 21st Century

 H0250
## Grade level 11-12. One semester.

## Prerequisite: None.

This writing course rigorously explores technical writing by studying the conventions and formats of the genre. Students will learn to write more clearly, concisely, and credibly. There will be a review of grammar and punctuation, as well as the rules for
sentence construction and document organization. Students will produce products that are practical, user-friendly, client-driven, and professional. The writing will be business-oriented and reflective of real world usage.
World Mythology. H0436 Grade level 11-12. One semester. Prerequisite: None.

World Mythology examines the common elements found in myths from a variety of cultures, including the Middle East, Egypt, Africa, Asia, Northern Europe, and the Americas. Students will read ancient texts, plays, epics, poetry and contemporary literature containing allusions to world myths. Topics of study will include the historical and theoretical basis of myths and archetypes, including creation, heroes, monsters, tricksters, and quests. World Mythology will include extensive reading, discussion, creative and analytical writing, and oral presentations.

## World Mythology Online <br> Grade level 11-12. One semester. <br> Prerequisite: None.

H04360L

This is an online course. World Mythology examines the common elements found in myths from a variety of cultures, including the Middle East, Egypt, Africa, Asia, Northern Europe, and the Americas. Students will read ancient texts, plays, epics, poetry and contemporary literature containing allusions to world myths. Topics of study will include the historical and theoretical basis of myths and archetypes, including creation, heroes, monsters, tricksters, and quests. World Mythology will include extensive reading, discussion, creative and analytical writing.

## MATHEMATICS

## Algebra 1 <br> H1352SP <br> Grade level 10-12. Two semesters. <br> Prerequisite: IEP\& Algebra Readiness

This course reviews and extends problem solving, data analysis, the use of technology (i.e., scientific calculator, graphing calculator, computer), the theory, use and understanding of the fundamental operations on real numbers and linear equations, graphing linear equations in a variety of forms and work with data, equations and functions. The course will cover systems of linear equations, quadratic functions, exponential functions, polynomial functions, rational functions and discrete math using appropriate related applications.

## Algebra Readiness 9-12 <br> H1344SP Grade level 9-12. Two semesters Prerequisite: IEP

This course reviews and extends problem solving, data analysis, the use of technology (i.e., scientific calculator, graphing calculator, computer), the theory, use, and understanding of the fundamental operations on real numbers. The course covers work with data, linear equations, and functions, graphing linear equations, solving linear equations and inequalities, radicals, connects algebra with geometry and uses algebra in appropriate related applications. This course is the equivalent of the first semester of an Algebra I Course. Modified curriculum for Algebra as required by student's IEP

## Algebra Readiness Online

H1344OL
Grade level 9-12. One semester.
Prerequisite: This online course can not be taken by students who have successfully completed Pre-Algebra, Survey of Algebra or Algebra A or B, or Algebra I or any higher level math course.

This online course is designed to prepare students for success in an algebra course. The emphasis will be on continued development of pattern recognition, computational skills, elementary algebra topics, and the use of technology.
Algebra 1 .H1352
Grade level 9-12. Two semesters.
Prerequisite: First semester enrollment requires at least one of the following:

1. A grade of " $C$ " or better in 8 th grade math.
2. A grade of " $C$ " or better in Pre-Algebra.
3. Recommendation or approval of student's most recent math instructor or math department chairperson.
The prerequisite for the second semester of Algebra I is the successful completion of the first semester or consent of instructor or math department chairperson. Students who have successfully completed Algebra B or Survey of Algebra can NOT take Algebra I.

The course reviews and extends problem solving, data analysis, the use of technology (i.e., scientific calculator, graphing calculator, computer), the theory, use and understanding of the fundamental operations on real numbers, expressing quantitative statements in the language of algebra, solving equations and inequalities, polynomials, the use of rational expressions in equations, coordinate graphing, irrational numbers, solution of quadratic equations and related applications.

To receive high school credit for this course being taken in Middle School, the student must earn a grade of C or better.

From Credit by Choice, revised 10/6/10.

## Algebra I Online

H1352OLS1/ H1352OLS2
Grade level 9-12. One semester each.
Prerequisite: First semester enrollment requires at least one of the following:

1. A grade of " $C$ " or better in 8 th grade math.
2. A grade of " $C$ " or better in Pre-Algebra.
3. Recommendation or approval of student's most recent math instructor or math department chairperson.
The prerequisite for the second semester of Algebra I is the successful completion of the first semester or consent of instructor or math department chairperson. Students who have successfully completed Algebra B or Survey of Algebra can NOT take Algebra I.

This online course reviews and extends problem solving, data analysis, the use of technology (i.e., scientific calculator, graphing calculator, computer), the theory, use and understanding of the fundamental operations on real numbers, expressing quantitative statements in the language of algebra, solving equations and inequalities, polynomials, the use of rational expressions in equations, coordinate graphing, irrational numbers, solution of quadratic equations and related applications.

[^5]of Algebra II is the successful completion of the first semester or consent of instructor and/or math department chairperson.

This course includes problem solving, data analysis, the use of technology (i.e., graphing calculator, computer), basic operations with polynomials, solving equations and inequalities, sequences and series, relations and functions, systems of equations in two and three variables, understanding and operations with matrices, irrational and complex numbers through the solution of quadratic functions and polynomial functions of higher than first degree, use and evaluation of the Euler number, and an introduction to logarithms.

To receive high school credit for this course being taken in Middle School, the student must earn a grade of C or better.

From Credit by Choice, revised 10/6/10.

## Algebra II Online <br> . H1377OLS1/ H1377OLS2

Grade level 9-12. One semester each.
Prerequisite: A grade of " $C$ " or better in Algebra I and Geometry or consent of previous mathematics instructor and/or math department chairperson. The prerequisite for the second semester of Algebra II is the successful completion of the first semester or consent of instructor and/or math department chairperson.

This online course includes problem solving, data analysis, the use of technology (i.e., graphing calculator, computer), basic operations with polynomials, solving equations and inequalities, sequences and series, relations and functions, systems of equations in two and three variables, use of and operations on matrices, irrational and complex numbers through the solution of quadratic functions and polynomial functions of higher than first degree, use and evaluation of the Euler number, and an introduction to logarithms.

## Advanced Algebra, Statistics, Trigonometry. <br> H1660 <br> Grade level 10-12. Two semesters. <br> Prerequisites: A grade of " $C$ " or better in Algebra II or consent of previous math instructor or math department chairperson. The second semester prerequisite for this course is the successful completion of the first semester or consent of instructor or math dept. chairperson.

This course includes problem solving, data analysis, the use of technology (graphing calculator, computer), transformations of functions and data, power, exponential and logarithmic functions, trigonometric functions, graphs of circular functions, probability and simulation, sequences, series and combinations, polynomial functions, binomial and normal distributions, matrices, and trigonometry.

## Advanced Placement Statistics

 H1701 Grade level 11-12. Two semesters. Prerequisites: First semester enrollment requires a grade of " B " or better in Algebra II. The prerequisite for the second semester of AP Statistics is the successful completion (" C " or better) of the first semester or the consent of the instructor or math department chairperson.As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions
from data. Students will be expected to be able to use appropriate technology to interpret data and will be expected to be able to communicate their results in an understandable form.

## Advanced Placement

Statistics Online
.H1701OLS1/H1701OLS2
Grade level 11-12. One semester each.
Prerequisite: First semester enrollment requires a grade of " B " or better in Algebra II. The prerequisite for the second semester of AP Statistics is the successful completion ("C" or better) of the first semester or the consent of the instructor or math department chairperson.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful. The purpose of this online course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will be expected to be able to use appropriate technology to interpret data and will be expected to be able to communicate their results in an understandable form.

## Advanced Placement Calculus AB

.H1706

## Grade level 11-12. Two semesters.

Prerequisite: " B " or better in Pre-Calculus and Algebra II or consent of the previous mathematics instructor or math department chairperson.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful.

This course includes the study of functions and graphs, derivatives and their application, analytic geometry, limits and continuity and includes the use of current technology.

## Advanced Placement

Calculus AB Online ...........H1706OLS1/H17060LS2
Grade level 11-12. One semester each.
Prerequisite: " B " or better in Pre-Calculus and Algebra II or consent of the previous mathematics instructor or math department chairperson.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful. This online course includes the study of functions and graphs, derivatives and their application, analytic geometry, limits and continuity and includes the use of current technology.

## Advanced Placement Calculus BC

 .H1709Grade level 11-12. Two semesters.
Prerequisite: " B " or better in AP Calculus AB ; 3 or higher on the AP Calc AB test; or consent of the Calculus BC instructor or math department chairperson.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful.

This course includes the study of functions and graphs, derivatives and their application, analytical geometry, limits and continuity, integrals, parametric equations, polar functions and vector analysis. Additional techniques and applications for differentiation and integration will be developed. Polynomial approximations will be explored through the Maclaurin and

Taylor Series. Convergence and divergence of sequences and series will be investigated. Appropriate technology will be incorporated throughout the course.

## AP Calculus BC Online. . . . . . . .H1709OLS1/H1709OLS2

Grade level 11-12. One semester each.
Prerequisite: "B" or better in AP Calculus AB; a 3 or higher on the AP Calc AB test; or consent of the Calculus BC instructor or math department chairperson.

As with other courses designated with Advanced Placement, this online course is introductory college level material. The student is expected to meet this college level workload to be successful. This course includes the study of functions and graphs, derivatives and their application, analytical geometry, limits and continuity, integrals, parametric equations, polar functions and vector analysis. Additional techniques and applications for differentiation and integration will be developed. Polynomial approximations will be explored through the Maclaurin and Taylor Series. Convergence and divergence of sequences and series will be investigated. Appropriate technology will be incorporated throughout the course.

## Advanced Placement Calculus C

.H1708
Grade level 11-12. One semester.
Prerequisite: AP Calculus AB or simultaneous enrollment in second semester AP Calculus AB with a grade of A or B, or consent of Calculus C instructor.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful.

This semester course is designed to enhance a student's understanding of functions, graphs, limits, derivatives and integrals by including the study of parametric equation, polar functions and vector analysis. Additional techniques and applications for differentiation and integration will be developed. Polynomial approximations will be explored through the Maclaurin and Taylor Series. Convergence and divergence of sequences and series will be determined using geometric series and harmonic series, alternating series, p-series, the integral test and the ratio test. Appropriate technology will be incorporated throughout the course.
tor and computer) will be incorporated throughout the course.

## Analyzing and Displaying Data H1680 Grade level 9-12. One semester. <br> Prerequisites: The student can NOT have received a "C" or better in Algebra II or any higher level math course.

In this course, the student will generate and use data sets to communicate information, to analyze and communicate the meaning of data sets and use statistical methods to test conjectures. Problem solving and technology (graphing calculator and computer) will be incorporated and probability will spiral throughout the course. Students will design and conduct a study, gather the data, analyze the results and make a presentation incorporating technology.

## Foundations for Algebra <br> H1021

Grade level 9-12. Two semesters.
This course is designed for the student who needs remedial work in basic math skills. This course covers addition, subtrac-
tion, multiplication and division of whole numbers, fractions and decimals, estimation, percents, solution of word problems and calculator applications.

## Financial Literacy

 H1025
## Grade Level 10-12. One Semester.

This one semester class will integrate mathematics standards and the national standards for financial literacy. Topics include earning income, buying goods and services, using credit, saving money, financial investing, and insurance. Upon completion of this course, students will have strategies for life after high school, including finding a job, paying for rent, utilities, transportation, and food, and budgeting for unknown circumstances. Students will explore credit and interest as they relate to spending and saving money.

## Geometry

 H1502
## Grade level 9-12. Two semesters.

Prerequisite: A grade of " $C$ " or better in Algebra I or consent of previous mathematics instructor or math department chairperson. The prerequisite for the second semester of Geometry is the successful completion of the first semester or consent of instructor or math department chairperson.

This course covers the study of plane and three dimensional geometry with emphasis on clarity and precision of language as well as the logical development of geometric principles in deductive reasoning and proof. Additionally, students work with points, lines, planes, angles, congruent triangles, circles, polygons, and transformations.

To receive high school credit for this course being taken in Middle School, the student must earn a grade of C or better.

From Credit by Choice, revised 10/6/10.

## Geometry Online. <br> H1502OLS1/ H1502OLS2

Grade level 9-12. One semester each.
Prerequisite: A grade of " $C$ " or better in Algebra I or consent of previous mathematics instructor or math department chairperson. The prerequisite for the second semester of Geometry is the successful completion of the first semester or consent of instructor or math department chairperson.

This online course covers the study of plane and three dimensional geometry with emphasis on clarity and precision of language as well as the logical development of geometric principles in deductive reasoning and proof. Additionally, students work with points, lines, planes, angles, congruent triangles, circles, polygons and transformations.

## Informal Geometry

.H1504
Grade level 10-12. Two semesters.
Prerequisites: Successful completion of Survey of Algebra or Algebra I (credit earned) and consent of previous mathematics instructor or math department chairperson. This course can NOT be taken by anyone who has earned credit for Geometry or any higher level math course. The prerequisite for the second semester of Informal Geometry is the successful completion of the first semester or consent of instructor or math department chairperson.

This course emphasizes concrete experiences and applications and an inductive/intuitive approach to develop geometric concepts. Priority is on proper vocabulary for the logical unraveling of developmental principles. Topics include classifications of, properties of, and relationships between geometric objects. These
objects include points, lines, planes, angles, similar and congruent triangles, circles, polygons, and polyhedrons. Manual and com-puter-based measurement, transformations, and constructions of these objects is also included.
Informal Geometry 9-12 H1504SP

## Grade level 10-12. Two semesters.

Prerequisite: IEP
This course uses an inductive/intuitive approach to developing geometric concepts with emphasis on concrete experiences and applications. The proper vocabulary for the logical procedure of developmental principles will be stressed. Topics will include classifications of, properties of and relationships between points, lines, planes, angles, similar and congruent triangles, circles, polygons and polyhedrons; measurement; transformations and constructions.

Integrated Math. . . . . . . . . . . . . . . . . . . . . . . . . . . . . H1360 Grade 11-12. Two semesters.
Prerequisites: The student must have satisfied the Algebra requirement and passed a Geometry course or consent of the math department chairperson. The student can NOT have earned any credit for second semester Algebra II or any higher level math course.

This course will integrate Algebra 1 and Geometry topics and present them in the context of applications. It will also include probability, statistics, logical reasoning and discrete math. It is recommended for students with some algebra and geometry credit, who wish to strengthen and improve their math knowledge in these areas and apply it to career situations.
Math 9-12 AC 1
.H1170LS1
Grade level 9-12. Two semesters.
Prerequisite: IEP.
This course covers addition, subtraction, multiplication and division of whole numbers, fractions and decimals, estimation, percents, solution of word problems and calculator applications that apply to everyday living skills. This is an alternate math curriculum for students enrolled in a Life Skills 1 class who are non-diploma track on Alternate Assessment as required by their IEP. This course is repeatable.
Math 9-12 AC 2
H1170LS2
Grade level 9-12. Two semesters.
Prerequisite: IEP.
This course covers addition, subtraction, multiplication and division of whole numbers, fractions and decimals, estimation, percents, solution of word problems and calculator applications that apply to everyday living skills. This is an alternate curriculum for students enrolled in a Life Skills 2 class who are non-diploma track on Alternate Assessment as required by their IEP. This course is repeatable.

## Math Skills Workshop H1045

Grade level 10-12. One semester. Prerequisite: Consent of previous instructor or math department chairperson.

This course is designed for the student who needs individualized concentrated work in specific math skills. A diagnostic test will be administered to determine the deficient skill area or areas.

The course content will be determined by the teacher for each individual student and will be based on the deficient areas.

## Pre-Calculus with Trigonometry

 .H1662Grade level 10-12. Two semesters.
Prerequisites: A grade of " B " or better in Geometry and Algebra II or permission of previous mathematics instructor or math department chairperson. The prerequisite for the second semester of Pre-Calculus with Trig is the successful completion of the first semester or consent of instructor or math department chairperson.

This course covers logarithmic and exponential functions, analytic geometry, introduction to limits and the derivative, sequences and series, circular and trigonometric functions, graphs, laws, identities, inverses and their applications, vectors and complex numbers. The emphasis of this course is on the concepts that build toward understanding calculus. It follows an applications approach and uses graphing calculators and other appropriate technology.

## Pre-Calculus with

Trigonometry Online
H1662OLS1/ H1662OLS2

## Grade level 10-12. One semester each.

Prerequisite: A grade of "B" or better in Geometry and Algebra II or permission of previous mathematics instructor or math department chairperson. The prerequisite for the second semester of Pre-Calculus with Trig is the successful completion of the first semester or consent of instructor or math department chairperson.

This online course covers logarithmic and exponential functions, analytic geometry, introduction to limits and the derivative, sequences and series, circular and trigonometric functions, graphs, laws, identities, inverses and their applications, vectors and complex numbers. The emphasis of this course is on the concepts that build toward understanding calculus. It follows an applications approach and uses graphing calculators and other appropriate technology.

## Survey of Algebra

 .H1326Grade level 9-12. Two semesters.
Prerequisite: This course can NOT be taken by a student who has successfully completed Algebra I or any higher level math course. The prerequisite for second semester of Survey of Algebra is the successful completion (grade of "C" or better) of the first semester or consent of the math department chairperson.

This course provides an introduction to uses and applications of algebraic concepts including the solution of linear equation, inequalities and formulas, graphing linear equations and inequalities and the solution of word problems. This course is designed for the student who will need to apply algebraic concepts in vocational/career areas, vocational courses, and/or King Tech High courses.

## PHYSICAL EDUCATION/ HEALTH

## Aerobics

 H6655Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course.
Repeatable unlimited times.
This course is designed to introduce students to a variety of aerobic activities. Aerobic activity is vigorous, oxygenated large muscle exercise which stimulates heart and lung activity for a
specific period of time while engaging body core stability. As a result, beneficial changes in the cardiorespiratory system are seen as well as the individual feels energized. In addition, basic choreography, music selection and effective group management skills will be taught. This course will provide students with the opportunity to increase their individual level of physical fitness, acquire knowledge of related fitness concepts and demonstrate an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.

## Adventure 101

H6306
Grade level 9-12 Semester
Prerequisite: None
Repeatable unlimited times.
Students enrolled in this course will have the opportunity to receive instruction in the technical skills of indoor rock climbing, challenge courses, belaying and knot tying. In addition, students will be able to develop the concepts of challenge-by-choice, cooperation vs. competition, circle-of-comfort, trust, critical thinking, problem solving and responsibility. In order to successfully attempt the physical challenges of the course, students will be expected to maintain a proficient level of physical fitness. The class will include opportunities to develop agility, muscular and cardiovascular strength, endurance and flexibility.

## Badminton

H6620
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course.
Repeatable unlimited times.
The purpose of this course is to introduce students to the basic skills and knowledge associated with badminton. By applying these principles through active participation, students develop the necessary skills and knowledge to pursue badminton as a lifetime activity. In addition, this course provides students with opportunities to improve physical fitness, acquire knowledge of fitness concepts and practice positive personal and social skills. Students will gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.

## Basketball <br> H6309 <br> Grade level 9-12. Quarter/Semester. <br> Prerequisite: None. Team activity. <br> Repeatable unlimited times.

The purpose of this course is to introduce students to the basic skills and knowledge associated with basketball. By applying these principles through active participation, students develop the necessary skills and knowledge to play basketball. In addition, this course provides students with opportunities to improve physical fitness, acquire knowledge of fitness concepts and practice positive personal and social skills. Students will gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.

## Cross-Training

H6760
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course.
Repeatable unlimited times.
This course is designed to introduce students to cross-training. Cross-training utilizes a variety of activities which involve varying
muscles, intensity and impact on different days. Students will participate in at least two different aerobic activities and at least one strength training and/or muscular endurance activity weekly which utilizes body core stability. Students will acquire knowledge needed to develop a lifetime fitness plan, as well as an appreciation of how it feels to be physically fit.
Dance—Introductory . . . . . . . . . . . . . . . . . . . . . . . . H6650

## Grade level 9-12. Quarter/Semester.

Prerequisite: None. Lifetime Activity Course.
Repeatable unlimited times.
This course is designed as an introduction to movement, dance elements and the creative aspects of dance. Students explore various styles of dance through a unit approach and collaborate on a variety of student choreography projects. The development of muscular strength, flexibility, agility, balance, body alignment and an understanding of rhythm are approached through combined warm-up and dance technique segments. In addition, students study health-related fitness concepts and basic nutrition principles as they relate to dance.

## Dance-Intermediate

. H 6652

## Grade level 9-12. Quarter/Semester.

Prerequisite: Dance-Introductory. Lifetime Activity Course.

## Repeatable unlimited times.

Intermediate dance enhances the skills and concepts introduced in Introductory Dance. Students are challenged to improve their existing dance skills in various styles of dance including jazz, ballet, modern and improvisational dance. Warm-up exercises continue to promote muscular strength, flexibility, agility and balance while placing greater emphasis on correct body alignment and dance technique. Students often work with guest artists in addition to creating and performing their own choreography. Students continue their study of health-related fitness concepts and basic nutrition principles as they relate to dance.
Dance-Multicultural . H 6653
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course. Repeatable unlimited times.

This course allows students to explore and share their cultural backgrounds as they are introduced to the traditional dances of many lands. The development of strength, flexibility, agility, balance, body alignment and an understanding of rhythm are approached through combined warm-up and dance technique segments. Community resource people and guest artists are utilized frequently to enhance understanding of the cultural significance of various dances. In addition, students study health-related fitness concepts and basic nutrition principles as they relate to dance.
Dance-Contemporary Dance, Repertory . . . . . . . H6651

## Grade level 9-12. Quarter/Semester.

Prerequisite: Audition or Instructor Approval. Lifetime Activity Course.

## Repeatable unlimited times.

This course is open to students who have mastered basic dance skills and have an interest in dance performance. Students will learn more difficult dance techniques and choreography with per-
formance as a focus. In addition to experimenting with their own choreography, students will work with a variety of guest artists to create a performance repertory which includes various dance styles. The culmination of this course will be a full-length dance concert. Students will be involved in all phases of concert production. Numerous rehearsals and performances outside of class time are part of course work and are required.
Dance Production
.H6649S
Grade level 9-12. Two semesters.

## Prerequisite: Director's approval.

Repeatable up to 8 times.
In this course students will be introduced to the study of Dance Production which involves all aspects of producing a performance. It includes learning about and performing the duties of the positions in a professional dance company when creating a performance. These positions include: choreographer, dancer, costume and property designer/constructor, marketer, music creator/ editor, and photographer/videographer. The class is project oriented and will include course work outside of class time. Student rehearsals will also occur outside class time.

First Aid
H6007
Grade level 9-12. One semester.
Prerequisite: None. Lifetime Activity Course. Not repeatable for students who received passing grade.

This course is designed to prepare students to assist themselves and others, in case of injury or sudden illness, when medical and hospital services are limited or delayed. Emphasis will also be placed on safety awareness in the home, school, community and on the streets and highways. The new Red Cross certification will be given to those students who complete the requirements of this course.

## Fitness Basics

H6750
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course. Repeatable unlimited times.

The course is designed to introduce students to all aspects of low impact and basic fitness concepts and activities. The primary class activities will include a variety of health-related fitness activities such as yoga, Pilates and use of pedometers that are appropriate for the participants' level of fitness. Course content will include laboratory sessions based on nutritional and fitness concepts, fitness assessment, motivation and self-esteem. In addition to setting and working toward personal fitness goals, students will have opportunities to practice positive social skills as they gain an understanding of how a wellness lifestyle affects the quality of life.

## Flag Football

H6360
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Team activity. Repeatable unlimited times.

The purpose of this course is to introduce students to the basic skills and knowledge associated with flag football. By applying these principles through active participation, students develop the necessary skills and knowledge to play flag football. In addition, this course provides students with opportunities to improve physical fitness, acquire knowledge of fitness concepts and practice
positive personal and social skills. Students will gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.

## Healthy Life Skills 9-12

H6052SP
Grade level 9-12. One semester.

## Prerequisite: IEP. Lifetime Activity Course.

This course is designed to help students develop healthy habits and positive behavior patterns. Students are provided with the knowledge of skills that lead to responsible decision making for a safe and healthy lifestyle. Topics covered includes nutrition, fitness, substance abuse, sexuality education and stress management. Modified curriculum for Healthy Life Skills, as required by students' IEP.
Health 9-12 AC 1.............................. H6002LS1
Grade level 9-12. One semester.
Prerequisite: IEP. Lifetime Activity Course.
Repeatable unlimited times.
This course is designed to help students develop healthy habits and positive behavior patterns. Students are provided with the knowledge of skills that lead to responsible decision making for a safe and healthy lifestyle. Topics covered includes nutrition, fitness, substance abuse, sexuality education and independent living skills. Alternate curriculum will be used for students enrolled in a Life Skills 1 class as required by their IEP.

## Health 9-12 AC 2

H6002LS2
Grade level 9-12. One semester.
Prerequisite: IEP. Lifetime Activity Course.

## Repeatable unlimited times.

This course is designed to help students develop healthy habits and positive behavior patterns. Students are provided with the knowledge of skills that lead to responsible decision making for a safe and healthy lifestyle. Topics covered includes nutrition, fitness, substance abuse, sexuality education and independent living skills. Alternate curriculum for students enrolled in a Life Skills 2 class as required by their IEP.

## Health Opportunities through

Physical Education (HOPE) Online

## H61100L

## Grade level 9-12. One semester.

## Prerequisite: None. Lifetime Activity Course.

## Not repeatable for students who received a passing grade.

This online course will challenge students to become educated consumers, learn to manage stress, choose nutritious foods, make healthy lifestyle choices, be an effective member of a team and influence others in their community in a positive way. Students will have the opportunity to experience the many benefits of regular physical activity, proper nutrition, and sound decision-making. Topics covered include wellness, mental health, media literacy/consumer health, fitness components, nutrition, disease prevention, drug awareness, sexuality education, CPR, and decision-making skills.

## Healthy Relationships/Sexuality Education . H 6770 <br> Grade level 11-12 Semester

## Prerequisite: Parent Permission Required

Not repeatable for students who received a passing grade.
This course provides information about relationships and
sexuality, examines various attitudes and influences on relationships and sexuality, helps students build interpersonal and relationship skills and teaches responsibility for health and healthy decision-making.
Individual Recreational Activities
.H6666
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course.
Repeatable unlimited times.
This course will offer students a variety of recreational activities in which they can participate on an individual basis and learn skills applicable for a lifetime. Activities may include, but are not limited to, in-line skating, cross-country skiing, snowshoeing, frisbee, power walking, ice skating, jogging, orienteering and biking. Safety equipment as well as equipment appropriate for each activity will be required and must be furnished by each student.

## Individual Recreational Activities Online <br> Grade level 9-12. One semester. <br> Prerequisite: None. Lifetime Activity Course. Repeatable unlimited times.

H66660L

This online course will offer students a variety of recreational activities in which they can participate on an individual basis and learn skills applicable for a lifetime. Activities may include, but are not limited to, in-line skating, cross-country skiing, snowshoeing, frisbee, power walking, ice skating, jogging, orienteering and biking. Safety equipment as well as equipment appropriate for each activity will be required and must be furnished by each student.

## Lifetime Personal Fitness

H6380
Grade level 9-12. One semester.
Prerequisite: None.
Repeatable unlimited times.
The purpose of this course is to promote the development and maintenance of personal fitness. It is conceptually based and focuses on healthy living and lifestyle choices, with particular emphasis on the role of exercise and physical activity including nontraditional and noncompetitive activities. Course content includes fitness assessment, regular physical activity, laboratory sessions based on fitness concepts and lectures based on the value and benefits of exercise in daily living. In addition to setting and working toward personal fitness goals, students have opportunities to practice positive social skills as they gain an understanding of how a wellness lifestyle affects the quality of life.

## Lifetime Personal Fitness Online <br> H63800L <br> Grade level 9-12. One semester. <br> Prerequisite: None. <br> Repeatable unlimited times.

The purpose of this online course is to promote the development and maintenance of personal fitness. It is conceptually based and focuses on healthy living and lifestyle choices, with particular emphasis on the role of exercise and physical activity including nontraditional and noncompetitive activities. Course content includes fitness assessment, regular physical activity, and fitness concepts and lectures based on the value and benefits of exercise in daily living. In addition to setting and working toward personal fitness goals, students have opportunities to practice pos-
itive social skills as they gain an understanding of how a wellness lifestyle affects the quality of life.

## Lifetime Personal Fitness 9-12 AC

H6380DE

## Grade level 9-12. One semester.

## Prerequisite: IEP

The purpose of this course is to promote the development and maintenance of personal fitness. This course focuses on healthy living and lifestyle choices, with particular emphasis on the role of exercise and physical activity including nontraditional and noncompetitive activities. Course content includes fitness assessment, regular physical activity, laboratory sessions based on fitness concepts and lectures based on the value and benefits of exercise in daily living. In addition to setting and working toward personal fitness goals, students have opportunities to practice positive social skills as they gain an understanding of how a wellness lifestyle affects the quality of life. Alternate curriculum for students enrolled is Life Skills as required by their IEP.
Native Games
.H6657
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course. Repeatable unlimited times.

The purpose of this course is to promote the cultural tradition of Alaska Native Youth Olympic events as well as other Native games. In addition to participation in a variety of Native game activities, this course provides students with opportunities to improve physical fitness, acquire knowledge of fitness concepts and practice positive personal and social skills. Students will gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.
Peer Tutor/Fitness Special Populations H6305

## Grade level 9-12. One semester.

Prerequisite: Approval of APE specialist on site. Lifetime Activity Course.

This course is designed to provide students with an opportunity to acquire experience with persons with disabilities within the exercise arena. Students in this course will facilitate the inclusion of students with disabilities in physical education classes. This course will include an orientation and structure for peer tutoring.
Physical Education 9-12 . . . . . . . . . . . . . . . . . . H6304SP
Grade level 9-12. One semester.
Prerequisite: IEP.
Repeatable unlimited times.
This is a year-long course divided into four quarter classes. The courses will include a team activity, individual/dual activity, aquatics and weight training. The course descriptions for each class will be the same as listed for each individual course. Modified curriculum for Physical Education, as required by students' IEP.

Physical Education 9-12 AC 1.
H6304LS1
Grade level 9-12. One semester.
Prerequisite: IEP.
Repeatable unlimited times.
This is a year-long course divided into four quarter classes. The courses will include a team activity, individual/dual activity, aquatics and weight training. The course descriptions for
each class will be the same as listed for each individual course. Alternate curriculum for students enrolled in a Life Skills 1 as required by students' IEP.

## Physical Education 9-12 AC 2

H6304LS2
Grade level 9-12. One semester.
Prerequisite: IEP.
Repeatable unlimited times.
This is a year-long course divided into four quarter classes. The courses will include a team activity, individual/dual activity, aquatics and weight training. The course descriptions for each class will be the same as listed for each individual course. Alternate curriculum for students enrolled in a Life Skills 2 class as required by students' IEP.

## Pursuing Wellness <br> H6052 <br> Grade level 10-12. One semester. <br> Prerequisite: None. Lifetime Activity Course. Not repeatable for students who received passing grade.

This course is designed to help students develop healthy habits and positive behavior patterns. Students are provided with the knowledge of skills that lead to responsible decision making for a safe and healthy lifestyle. Topics covered include nutrition, fitness, substance abuse prevention, sexuality education, and social and emotional health.

## Racquet Sports

H6734

## Grade level 9-12. Quarter/Semester. <br> Prerequisite: None. Lifetime Activity Course. <br> Repeatable unlimited times.

The purpose of this course is to introduce students to the basic skills and knowledge associated with playing a variety of racquet sports such as tennis, badminton, table tennis, handball, pickle ball, etc. The ultimate goal of this class is to provide the students with the knowledge and skills necessary for them to pursue playing racquet sports as a life-long activity. This course will provide students with opportunities to develop a satisfactory individual level of physical fitness, acquire knowledge of fitness concepts and demonstrate an understanding of how a wellness lifestyle affects one's health, fitness and physical performance. This course will provide an environment for all students to practice positive personal and social skills.

## Recreational Games

H6665
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Team activity. Repeatable unlimited times.

The purpose of this course is to offer a variety of activities to the student who enjoys the fun of games. The games will be recreational in nature. These activities may include: speedball, ultimate frisbee, floor hockey and non-contact lacrosse. Each activity will be a maximum of two weeks in length. In addition, this course will provide opportunities to improve physical fitness, acquire knowledge of fitness concepts, practice positive personal and social skills and gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.
Rugby
H6370
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Team activity.

## Repeatable unlimited times.

The purpose of this course is to introduce basic skills and knowledge associated with playing rugby and to apply these skills through active participation. This class provides students with basic understanding and concepts for spectator appreciation as well as active play. This course will provide students the opportunity to improve physical fitness, acquire knowledge of fitness concepts, practice positive personal and social skills and understand the importance of fitness.

## Soccer

H6389
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Team activity.
Repeatable unlimited times.
The purpose of this course is to introduce students to basic skills and knowledge associated with soccer. By applying these principles through active participation, students develop the necessary skills and knowledge to play soccer. In addition, this course provides students with opportunities to improve physical fitness, acquire knowledge of fitness concepts and practice positive personal and social skills. Students will gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.

## Softball

H6410

## Grade level 9-12. Quarter/Semester.

Prerequisite: None. Team activity.

## Repeatable unlimited times.

The purpose of this course is to introduce students to basic skills and knowledge associated with softball. By applying these principles through active participation, students develop the necessary skills and knowledge to play softball. In addition, this course provides students with opportunities to improve physical fitness, acquire knowledge of fitness concepts and practice positive personal and social skills. Students will gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.
Team Sports H6021
Grade level: 9-12. Semester.
Prerequisite: None. Team activity. Repeatable unlimited times.

The purpose of this course is to offer a variety of team sports to the student who enjoys goal setting, decision making, interacting with others directly and simultaneously to achieve an objective. These sports may include: basketball, volleyball, soccer, flag football and softball. Each sport will be a maximum of two weeks in length. In addition, this course will provide opportunities to improve physical fitness, acquire knowledge of fitness concepts, practice positive personal and social skills and gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.

## Volleyball.

. H 6440
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Team activity.
Repeatable unlimited times.
The purpose of this course is to introduce students to basic skills and knowledge associated with volleyball. By applying these
principles through active participation, students develop the necessary skills and knowledge to play volleyball. In addition, this course provides students with opportunities to improve physical fitness, acquire knowledge of fitness concepts and practice positive personal and social skills. Students will gain an understanding of how a wellness lifestyle affects one's health, fitness and physical performance.

## Weight Training-Basic <br> H6450

Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course.
Repeatable unlimited times.
The purpose of this course is to promote the development of muscular strength and endurance and to enjoy the benefits of regular physical activity. Students learn to identify the major muscle groups and how to increase the performance of each through weight lifting and how to stabilize the body core. The discussion and practice of weight lifting techniques and principles guides students toward the eventual implementation of a personal fitness program. The primary class activity involves regular conditioning exercises supported by lecture and discussion.

## Weight Training-Advanced H6451 Grade level 9-12. Quarter/Semester. Prerequisite: Weight Training-Basic. Lifetime Activity Course. Repeatable unlimited times.

This course is designed to build on the concepts introduced in basic weight training. Students are challenged to improve their existing level of fitness. Students will design and implement a safe and effective personal strength program. Students continue their study of health-related fitness concepts and basic nutrition principles as they relate to weight training.

## Wilderness Recreation

H6740
Grade level 9-12. Quarter/Semester.
Prerequisite: None. Lifetime Activity Course.

## Repeatable unlimited times.

The purpose of this course is to introduce students to basic skills and knowledge associated with orienteering, hiking, camping, rock climbing, biking, skating, snowshoeing, cross-country skiing, canoeing, water safety and/or survival. Through active participation, the student will have the necessary skills and knowledge to pursue a variety of lifetime outdoor recreational activities. The course will provide students the opportunity to increase their individual level of physical fitness, acquire knowledge of fitness concepts and demonstrate an understanding of how a wellness lifestyle affects one's health, fitness and physical performance. Students will have the opportunity to practice positive personal and social skills, as many of the activities involve cooperation and willingness to take physical challenges.

## Winter Sports

H6674
Grade level 9-12. Quarter/Semester.

## Prerequisite: None. Lifetime Activity Course.

## Repeatable unlimited times.

The purpose of this course is to introduce students to basic skills and knowledge associated with winter sports. These activities may include cross-country skiing, snowshoeing, ice hockey, ice skating, sledding, snowboarding and broomball. By applying
these principles through active participation, the student will have the necessary skills and knowledge to pursue the activities as a lifetime activity. The course will provide students the opportunity to increase their individual level of physical fitness, acquire knowledge of all fitness components and demonstrate an understanding of how a wellness lifestyle affects one's health, fitness and physical performance. Students will have the opportunity to practice positive personal and social skills.

## Yoga

H6761
Grade level 9-12. One semester.
Prerequisite: None
Repeatable unlimited times.
Students will practice Hatha Yoga focusing on yoga for strength, flexibility, and relaxation. The class will also cover techniques for increasing concentration and decreasing anxiety which leas to stronger academic performance. Breathing exercises and healthy fitness activities will also be taught.

## SCIENCE

## Advanced Placement

Environmental Science H2286
Grade level 11-12. Two semesters. Life science or physical science.

## Prerequisites: Biology and Chemistry.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful.

This course is an interdisciplinary course that provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/ or preventing them.

## Astronomy Online <br> H26200L

Grade level 10-12. One semester. Physical science.

## Prerequisite: None.

This online course is designed to build a coherent understanding of the earth-space relationship. Emphasis will be towards the development of astronomical concepts such as planetary motion, structure of galaxies and various theories of the formation of the universe. Course includes the use of various astronomical instruments.

## Astronomy: Solar System

H2621
Grade level 9-12. One semester. Physical science.

## Prerequisite: None.

Students investigate the development of astronomy from the ideas of the ancients to the modern technological exploration of our solar system. The course focuses on the origin, dynamics and physical characteristics of members of the solar system (sun, planets, satellites, meteoroids, asteroids and comets). Through a study of planetary geology, students will gain an appreciation for the interdisciplinary nature of astronomy. Class activities will include planetarium observations, as well as laboratory experi-
ences based on data provided by NASA, Harvard Smithsonian Micro-Observatory and other astronomy-based facilities.

## Astronomy: Universe H2622 <br> Grade level 9-12. One semester. Physical science.

 Prerequisite: None.Students investigate astronomy from the stellar and galactic view. They begin with the physical properties of stars and stellar evolution (how an astronomer infers a star's origin and eventual demise.) They progress to studies of galaxies, using the Milky Way as the standard for comparison. The universe on a grand scale then becomes the topic for analysis for discussions on clusters of galaxies and cosmology (the origin and evolution of the universe). The planetarium, Micro-Observatory Net and Mt. Wilson 24" Schmidt will aid laboratory studies, as well as information from many other NASA sights including the Hubble Telescope.

## Biology I

H2232
Grade level 9-12. Two semesters. Life science.
Prerequisite: Grade 10-12: none. Grade 9: 3.5 GPA in 8th grade core subjects, Algebra I and teacher recommendation.

Biology 1 is the foundational course for all biology elective courses. This course includes scientific inquiry, ecology, the chemical basis of life, cellular form and function, genetics, evolution, classification, and body systems.

## Biology I Online

H2232OLS1/H2232OLS2
Grade level 9-12. One semester each. Life science. Prerequisite: Grade 10-12: none. Grade 9: 3.5 GPA in 8th grade core subjects, Algebra I and teacher recommendation.

The basic biology course and prerequisite for all biology electives. This online course will include a study of the chemical basis of life such as the cellular processes of respiration, photosynthesis, diffusion and osmosis. Cell division, DNA and enzyme action will also be covered. The course also includes an extensive treatment of introductory botany, zoology, ecology and genetics.

## Biology II

H2242
Grade level 11-12. Two semesters. Life science.
Prerequisite: Biology I and Chemistry I.
This course continues the topics introduced in first year biology. Special emphasis is placed on anatomy and physiology, genetics, evolution and ecology. The human's biological evolution and impact on other biological systems is examined. Course is structured so the student has more time for independent study using classroom, library and community facilities.

## BioTaPP 1

H8940
Grade level 11-12. One semester. Life science.

## Prerequisite: Algebra I, Biology, and Chemistry or concurrent enrollment in Chemistry.

Biotechnology Training and Preparatory Program (BioTaPP), is a 2 -year program designed to give students experience in fundamental and advanced biotechnological techniques used in biological research and industry. The program has partnerships with industry and academia, which review the types of activities instructed to give students the best possibility of getting a job right out of high school or a job while attending college. BioTaPP is for those students who wish to learn more biotechnological
techniques and want to work independently on a science project involving laboratory and library research.

BioTaPP 1 is the first course in a sequence of four and concentrates on maintaining the laboratory environment, proper documentation as well as the basic foundational protocols and skills used in the biotechnology industry. Upon completion of the sequence of courses, graduates could seek employment as a laboratory or research technician, or continue to higher educational opportunities as a research assistant.

## BioTaPP 2

. H 8941
Grade level 11-12. One semester. Life Science.
Prerequisite: BioTaPP 1.
BioTaPP 2 is the second course in a sequence of four and continues to concentrate on the foundational protocols and techniques of the biotechnology Industry. Protocols and applications in this course are more advanced than BioTaPP 1 and transition students into using learned skills into an individual small scope project with a focus on communication strategies. Upon completion of the sequence of courses, graduates could seek employment as a laboratory or research technician, or continue to higher educational opportunities as a research assistant.

## Biotechnology 1

.H2260

## Grade level: 10-12. Two semesters. Life science.

## Prerequisites: Biology 1 (with C or higher).

This is a year-long, lab-based class that introduces students to biotechnology for the 21 st century, highlighting the revolution in biology. This class is designed to prepare students for post secondary options in Biotechnology. Fundamental lab skills training will be the focus of this class. Students will be introduced to the foundations of biotechnology; conceptual understanding of benetic engineering; bioremediation (BP); bioterror and biodefence (military); medicine; immunology; pharmaceutical applications; bioethics and careers in biotechnology. The role of genetically modified organisms will be examined from an ecological perspective. This course will also be supported by local and national scientists in the field of biotechnology.

## Advanced Placement Biology

 . H 2244
## Grade level 11-12. Two semesters. Life science.

## Prerequisite: Biology I and Chemistry I.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful.

The AP Biology course is designed to be the equivalent of a college introductory biology course. Topics include molecules, cells, genetics, evolution, organisms, and populations.
Biology, Alaska H2220
Grade level 10-12. One semester. Life science.
Prerequisite: Biology I. Not open to students with credit in Natural Science of Alaska.

Course will consist of an examination of plants and animals found throughout Alaska. Field work will be required as well as the study of materials from state and federal agencies. Topics considered will include habitat, behavior, game management, the general classification of common plants and animals and their food value to humans.

## Marine Biology

H2305
Grade level 10-12. One semester. Life science.
Prerequisite: Biology I .
Study of marine life found on shores, in bays, estuaries, intertidal zones and in ocean depths. The commercial and environmental importance of various forms of marine life will also be examined.

## Marine Biology Online

H2305OL

## Grade level 10-12. One semester. Life science.

Prerequisite: Biology I.
This online course is a study of marine life found on shores, in bays, estuaries, intertidal zones and in ocean depths. The commercial and environmental importance of various forms of marine life will also be examined.

## Oceanography <br> H2306 <br> Grade level 10-12. One semester. Physical science. <br> Prerequisite: Biology I.

Students in the course will study the physical aspects and interactions with the atmosphere-ocean interface including geology, chemistry, physics, meteorology and pollution of oceans. Included will be the study of the effects of geology, geochemistry, geography and physical forces on marine organisms.
Micro Biology H2320
Grade level 10-12. One semester. Life science.

## Prerequisite: Biology I.

Course deals with the techniques of growing and identifying micro-organisms and general microtechnique. Beneficial and harmless organisms will be grown and discussed. Bacterial counts and studies will be done of many areas in the school and community.

## Botany <br> H2270 <br> Grade level 10-12. One semester. Life science. <br> Prerequisite: Biology I.

Botany is a one semester course exploring the relationships, classification and development of plants from algae to the flowering plants. Included will be study of the structure and function of roots, stems, leaves and plant life cycles. The basic functions of hormones and their relation to plant growth are included. Students will grow their own plants and also receive an introduction to the field of horticulture.
Conceptual Chemistry H2411 Grade level 10-12. Two semesters. Physical science. Prerequisite: None.

Provides an opportunity for the student interested in areas other than science to study the basic concepts in chemistry as they relate to home and life. Chemical concepts will be used to explain many of the processes we observe in our daily lives. While examining these concepts, the student will develop skills in the laboratory and in problem solving.

[^6]writing formulas and equations, nomenclature of compounds, chemical bonding, use of symbols, valence, physical and chemical properties, elements, mixtures and compounds, kinetic molecular theory of solids, liquid and gases.

The second semester will include the additional major concepts: oxidation, reduction, reaction rates, chemical equilibrium, acids, bases, pH , ionization, stoichiometry, heat of reactions, gas laws, molar concentrations, solutions and solubilities.

Laboratory skills will include: measure mass and volumes, measure temperature, measure melting point and boiling point, filtering and decanting, graphing, interpretation of data, observation, description, recording, measuring pH , titration, pressure of gases, calorimetry and preparation of solutions.

## Chemistry II

 .H2432
## Grade level 11-12. Two semesters. Physical science.

## Prerequisite: Chemistry I.

Particularly useful for those students interested in science. This course will prove especially helpful for those students whose collegiate interests lie in chemistry, biology, molecular biology, medicine or related fields.

A two-semester program enhancing topics covered in general chemistry. Areas of emphasis include chemical bonding, molecular geometry, kinetic-molecular theory, phase diagrams, changes of state, acid-base theories, oxidation-reduction and stoichiometry, equilibrium, reaction kinetics and introduction to organic chemistry which will include basic nomenclature and synthesis.

## Advanced Placement Chemistry <br> .H2434

Grade level 11-12. Two semesters. Physical science.
Prerequisite: Chemistry I, Algebra ll. Prerequisite: Chemistry I, Algebra II.

As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful.

This is a college level chemistry course which deals with advanced concepts in chemistry. Laboratory work and chemical problem-solving make up an integral part of the course. Topics covered in AP Chemistry will enhance those covered in Chemistry II with increased laboratory experiences and college level student expectations.

## Earth \& Space Science H2040 <br> Grade level 9 . One semester. Physical science Prerequisite: None.

This course covers the foundational knowledge of earth and space science. Topics covered include: formation of the universe, stars, Earth's history and the geologic time scale, theory of and evidence for plate tectonics, earthquakes, seismic waves and measuring earthquake magnitudes, volcano types and features, minerals and rocks, ocean layers, currents and circulation, history of earth's climate and global climate change.

## Earth Sciences Online

H26100L

## Grade level 10-12. One semester. Physical science.

## Prerequisite: None.

This online course is a survey of the various branches of sciences concerning the earth. The student has the opportunity to explore a wide variety of topics such as oceanography, historical geology, rock and mineral identification, astronomy, physical
geology, meteorology, composition and formation of the formations of the early and various geological processes of change. This course is not open to students who have successfully completed Geology I.

## Ecology <br> H2280 <br> Grade level 10-12. One semester. Life science. <br> Prerequisite: Biology I.

A study of the interrelationships of the living and nonliving environment. Topics will include habitat, population dynamics, food webs, random sampling techniques, geochemical cycling and limiting factors. The human effect on the ecosystem will also be discussed and emphasized. Ecosystems and biomes of Alaska will be stressed.

## Environmental Science A. <br> H2086 <br> Grade level 10-12. One semester. Life science. Prerequisite: None.

Students in this course explore ecological systems and the ways in which human systems affect and are a affected by environmental systems. Students approach environmental issues by understanding ecological components and human perspectives. Students address bias and misunderstandings to develop their own opinions about environmental issues. This is a lab and field based course where students apply their learning to local issues.

## Environmental Science B

H2087

## Grade level 10-12. One semester. Physical Science. Perquisite: None

Students in this course explore environmental systems through physical science. The course focuses on climate change, natural resources, pollution and energy and uses all fields of sciences to help students form educated opinions and solutions based on evidence about current and future environmental problems facing society.

## Forensic Science I <br> H2560 <br> Grade level 10-12. One semester. Life or physical science. Prerequisite: Biology I required, Chemistry I recommended.

This course focuses various aspects of forensic science and modern criminal investigation analysis. It integrates biology, geology, physics, chemistry, anatomy, medical sciences and critical thinking skills. Topics include structures and functions of the human body, processing a crime scene, physical evidence, questioned documents, serology and pathology. In addition, the course may cover selected topics in toxicology, drug and alcohol abuse, odontology, entomology, forensic art, terrorist and disaster response and emergency medical procedures. Laboratory work and projects will be an integral part of this course.

## Forensic Science I Online <br> H25600L

Grade level 10-12. One semester. Life or physical science.
Prerequisite: Biology I required, Chemistry I recommended.
This online course focuses on various aspects of forensic science and modern criminal investigation analysis. It integrates biology, geology, physics, chemistry, anatomy, medical sciences and critical thinking skills. Topics include structures and functions of the human body, processing a crime scene, physical evidence, questioned documents, serology and pathology. In
addition, the course may cover selected topics in toxicology, drug and alcohol abuse, odontology, entomology, forensic art, terrorist and disaster response and emergency medical procedures.

## Forensic Science II

H2570
Grade level 10-12. One semester. Life or physical science.
Prerequisite: Biology I required, Chemistry I recommended.
This course follows Forensic Science I. It focuses on various aspects of forensic science and modern criminal investigation analysis. It integrates biology, geology, physics, chemistry, anatomy, medical sciences and critical thinking skills. Topics include DNA analysis, textiles, trace evidence, firearms, tool marks and arson investigation. In addition, the course may cover selected topics in toxicology, drug and alcohol abuse, odontology, entomology, forensic art, terrorist and disaster response and emergency medical procedures. Laboratory work and projects will be an integral part of this course.

## Forensic Science II Online <br> H25700L

## Grade level 10-12. One semester. Life or physical science.

Prerequisite: Biology I required, Chemistry I recommended.
This online course follows Forensic Science I. It focuses on various aspects of forensic science and modern criminal investigation analysis. It integrates biology, geology, physics, chemistry, anatomy, medical sciences and critical thinking skills. Topics include DNA analysis, textiles, trace evidence, firearms, tool marks and arson investigation. In addition, the course may cover selected topics in toxicology, drug and alcohol abuse, odontology, entomology, forensic art, terrorist and disaster response and emergency medical procedures.

## Genetics

H2290
Grade level 10-12. One semester. Life science.
Prerequisite: Biology I.
A basic study of heredity among living organisms. Topics also will include adaptations to the environment and the process of natural selection and evolution. Special emphasis will be placed on human genetic factors and fruit fly genetics.

## Geology I

H2641
Grade level 9-12. Two semesters. Physical science.
Prerequisite: Grade 10-12: none. Grade 9: 3.5 GPA in 8th grade core subjects, Algebra I and teacher recommendation.

This course deals with the formation and evolution of the earth's surface features as revealed by rocks and fossils and of applications of geology to general interest topics and specific Alaskan problems. Areas of concentration will be on ancient plants, animals, as well as evolution and the development of crustal features. Special emphasis will be placed on the Anchorage and Alaskan areas. Geologic time, fossils and rock dating will be applied to the interpretation of earth structures, petroleum exploration and mineral economics.

## Geology II

 .H2656
## Grade level 10-12. Two semesters. Physical science.

## Prerequisite: Geology I.

A two-semester course of advanced work in physical and historical geology with lab and field work. Special work in the fields of mining, oil and Alaskan geology.

## Human Anatomy/Physiology

H2300
Grade level 10-12. Two semesters. Life science.
Prerequisite: Biology I required, Chemistry I recommended.
The study of the structure and function of the various portions of the human anatomy. This course is recommended for those students interested in medical/health-related careers. Course covers the chemical basis of life, histology, integumentary system, the nervous system, special senses and the skeletal system.
Introduction to Veterinary Science
H8920
Grade level 9-12. One semester. Life science. Prerequisite: Biology Recommended.

In Introduction to Veterinary Science, students will learn a basic knowledge of veterinary science to include the common species, health care, diseases and skills necessary for pursuing further education for veterinary careers. These skills are directly applicable and transferable to all components of the health career pathway. Topics include: clinical management and client relations, animal anatomy, disease processes, clinical procedures/ infection control and career investigations.

## Life Science <br> H2020 <br> Grade level 9. One semester. Life science. Prerequisite: None.

This course explores two aspects of life science: ecology and human body systems. It integrates biology, chemistry, anatomy, critical thinking skills and science practices. Hands on activities and laboratory work will be an integral component of this course. In addition, students will conduct a self directed, research-based inquiry project.

Topics covered in ecology include: characteristics of life, levels of organization, biodiversity and populations in ecosystems, energy transfer, major biomes, biogeochemical cycles and current events in ecology. Topics covered in human body systems include: homeostasis, body organization and systems, interactions among body systems, current events, diseases and society.

## Science 9-12 AC 1

H2002LS1

## Grade level 9-12. Two semesters.

Prerequisite: IEP.
This is an integrated, thematic program that teaches natural sciences through which common principles operate in relationship to one another. Students explore areas of life science, chemistry, physics, earth and space science as well as integrating technology. Alternate curriculum for students enrolled in a Life Skills 1 class as required by their IEP. This course is repeatable.

## Science 9-12 AC 2

H2002LS2
Grade level 9-12. Two semesters. Life science.

## Prerequisite: IEP.

This is an integrated, thematic program that teaches natural sciences through which common principles operate in relationship to one another. Students explore areas of life science, chemistry, physics, earth and space science as well as integrating technology. Alternate curriculum for students enrolled in a Life Skills 2 class as required by their IEP. This course is repeatable.

[^7]
## Prerequisite: None.

Physiology of Wellness is a hands-on approach to fundamental skills necessary for entry level positions in the health and nutrition fields. The class includes, but is not limited to, concepts of nutrition, weight control, eating disorders, exercise physiology, depression, the immune system, digestion and infectious disease.

## Meteorology H2550 <br> Grade level 10-12. One semester. Physical science. Prerequisite: None.

Students in this course will study and learn how meteorologists monitor the weather using weather maps, satellites, radar and physical and observational measurements of the atmosphere and sky. Students will also study the atmosphere's origin, composition and structure, solar and terrestrial radiation, heat and temperature, air pressure, humidity, saturation and stability, clouds, precipitation, wind, air masses, fronts, cyclones, anticyclones, thunderstorms, tornadoes, hurricanes and weather forecasting techniques.

## Introduction to Natural Resources

. H 2360

## Grade level 10-12. One semester. Life or physical science.

## Prerequisite: Biology or Instructor's permission.

A field course requiring winter and spring outdoor clothing, that is a survey of the science, technology, terminology, skills, safety procedures and career implications of natural resources. This course covers forestry, recreation, wildlife, fisheries management, environmental testing, fire use and fighting and natural resources technology.

## Natural Science of Alaska .H2330 <br> Grade level 9-12. One semester. Life or physical science. <br> Prerequisite: None. Not open to students with credit in Biology, Alaska.

A one semester study of geography, major land forms, weather and plants and animals of Alaska.

## Physical Science H2030

## Grade level 9. One semester. Physical science.

## Prerequisite: None.

This course is an introduction to physical science. It integrates physics, chemistry, critical thinking skills and design and engineering practices. Topics covered include: forces and interactions, motion, energy and energy transfer, atomic structure, periodic table, chemical bonding and the conservation of matter. Hands on activities and laboratory work will be an integral component of this course. In addition, students in the course will conduct a self directed design and engineering project, utilize Common Core skills, safety in science, careers in STEM, workplace readiness, and social emotional learning.

## PLTW Biomedical Innovations

 . H 8820Grade: 11-12. Two semesters. . 5 Physical science 1st semester, . 5 Life science 2nd semester.
Prerequisite: PLTW Medical Interventions.

## Academic Credit: .5Physical Science 1st semester, .5 Life Science 2nd semester

In this capstone course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the
health challenges of the 21 st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health.

## PLTW Civil Engineering \& Architecture H8000 Grade: 11-12. Two semesters. Physical science.

 Prerequisite: Algebra I, PLTW Intro to Engineering Design or CAD 1.Civil Engineering and Architecture is a course that provides an overview of the fields of civil engineering and architecture with an emphasis on the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. The major focus of the course is a long-term project that involves the development of a local property site. As you learn about various aspects of civil engineering and architecture, you will apply what you learn to the design and development of this property. There is flexibility for you and your teacher in developing the property as a simulation or as a real-world experience that civil engineers and architects experience when developing property. The course covers the roles of civil engineers and architects in project planning, site planning, building design and project documentation and presentation.

## PLTW Computer Integrated Manufacturing

## Grade: 11-12. Two semesters. Physical science. <br> Prerequisite: Algebra I.

Computer Integrated Manufacturing is a course that enhances computer modeling skills by applying principles of robotics and automation to the creation of models of three-dimensional designs. This course is part of the PLTW (Project Lead the Way) Pre-Engineering Program. The purpose of the Computer Integrated Manufacturing course is to expose students to the fundamentals of computerized manufacturing technology. The course is built around several key concepts: Computer Modeling, CNC Equipment, CAM, Robotics, Flexible Manufacturing Systems.

## PLTW Digital Electronics <br> H8112

Grade: 10-12. Two semesters. Physical science.
Prerequisite: Concurrent enrollment or completion of Algebra I.
Digital Electronics ${ }^{\mathrm{sw}}$ is a core course of study in the Project Lead the Way ${ }^{\circ}$ (PLTW) program. The purpose of this introductory pre-engineering course is to develop a student's logical thinking skills by solving problems and designing control systems. In this manner students will gain a better understanding of the digital circuits in microelectronic design, manufacturing, computer technology, and information systems. Students use computer simulation to learn about the logic of electrons as they design, test and construct circuits and devices. Students will use the design process by applying it to problem-solving activities and projects; develop critical thinking skills by designing and testing their own solutions; increase communication skills through design and presentation formats; and develop team building skills by working collaboratively in groups.

## PLTW Engineering Design and Development <br> .H8931 Prerequisite: 3 PLTW courses including PLTW Principles of Engineering

## Academic Credit: . 5 Physical Science per semester.

Engineering Design and Development is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

Students will perform research to choose, validate, and justify a technical problem. After carefully defining the problem, teams of students will design, build, and test their solution. Finally, student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational skills, communication and interpersonal skills, creative and problem solving abilities, and their understanding of the design process.

Engineering Design and Development is a high school level course that is appropriate for 12th graders. Since the projects on which student work can vary with student interest and the curriculum focuses on problem solving, this course is appropriate for students who are interested in any technical career path. It should be taken as the final capstone PLTW course since it requires application of the knowledge and skills from the PLTW foundation courses.

## PLTW Human Body Systems

 H8126
## Grade level 9-12 Two semesters. Life Science.

 Prerequisite: PLTW Principles of Biomedical ScienceHuman body systems is a two semester course that examines the interactions of body systems as they explore identity, communication, power, movement, projection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration, Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

\section*{PLTW Introduction to Engineering Design.

\section*{Grade level 9. Two semesters. Physical science.

## Grade level 9. Two semesters. Physical science. Prerequisite: Concurrent enrollment or completion of Algebra I.

Introduction to Engineering Design is a course that teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software. This course is part of the PLTW (Project Lead the Way) Pre-Engineering Program.

## PLTW Medical Interventions

 . H 8821
## Grade level 11-12. Two semesters. Life science.

Prerequisite: PLTW Human Body Systems.
Students investigate the variety of interventions in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "how-to" manual for maintaining overall health and homeostasis in the body as students explore how to prevent and fight infection; how to screen
and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario will introduce multiple types of interventions and will reinforce concepts learned in the two previous courses as well as present new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. Lifestyle choices and preventative measures are emphasized throughout the course as well as the important role of scientific thinking and engineering design play in the development of interventions of the future.

## PLTW Principles of Biomedical Science

 H8919
## Grade level: 9-12. Two semesters.

Core Credit: . 5 Life science 1st semester, .5 Physical science 2nd semester
Prerequisite: None.
Principles of Biomedical Sciences is a two semester course that provides an introduction to the biomedical sciences through exciting hands on projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce the students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

This course is the first course in the Project Lead the Way Biomedical Sciences Program.

## PLTW Principles of Engineering <br> H8116 Grade level 10-12. Two semesters. Physical science. Prerequisite: Concurrent enrollment or completion of Algebra I.

Principles of Engineering is a course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This course is part of the PLTW (Project Lead the Way) Pre-Engineering Program.

## Conceptual Physics <br> . H 2511

Grade level 10-12. Two semesters. Physical science.

## Prerequisite: None.

Basic content shall consist of a brief synopsis of classical areas of physics, i.e., heat, motion, magnetism, mechanics, optics, energy, light, wave behavior, and electricity. The approach to the above content areas of physics shall be that of an everyday practi-
cal application. Areas of study shall also include an examination of current energy and environmental problems from a physical science point of view.

AP Physics 1. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . H2530
Grade level 11-12. Two semesters.
Prerequisite: Algebra II.
AP Physics 1 is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits.

## AP Physics 2

. H2531
Grade level 11-12. Two semesters.

## Prerequisite: AP Physics 1

AP Physics 2 is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics

## Physics

.H2521
Grade level 10-12. Two semesters. Physical science.
Prerequisite: Algebra I concurrent or previous algebra II preferred. Chemistry preferred.

Designed to give the student an appreciation and understanding of the physical laws of the universe. It is a study of the basic force of nature. Topics include gravity, electricity, magnetism and atomic and nuclear forces.

## AP Physics C.

. H 2528
Grade level 11-12. Two semesters. Physical science.
Prerequisite: Physics, completed or currently enrolled in Calculus.
As with other courses designated with Advanced Placement, this course is introductory college level material. The student is expected to meet this college level workload to be successful.

This course is designed to be the equivalent of the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. Methods of calculus are used wherever appropriate in formulating physical principles and applying them to physical problems. The sequence is more intensive and analytic than that in the B course. The subject matter is mechanics and electricity and magnetism with approximately equal emphasis on these two areas.

## SOCIAL STUDIES

## Alaska Studies . H3110 Alaska Studies, Honors . . . . . . . . . . . . . . . . . . . . . . H 3110 H <br> Grade level 9-12. One semester, required. <br> Prerequisite: None.

Alaska Studies is an in-depth exploration of the rich geographic and cultural background of the state and its people from the early native peoples to the Russian era through statehood to the present. This course includes examination of the geography, history and the political and economic forces that have shaped contemporary Alaska. Content is organized around five themes of population, land, resource, governance and cultural landscape. The course seeks to ensure that students have a strong foundation
in the historic and cultural contexts of issues facing the state so they will develop a broad sense of community and strengthen skills that will encourage thoughtful consideration of issues and choices facing Alaska.

## Alaska Studies Online <br> H31100L Grade level 9-12. One semester, required. Prerequisite: None.

Alaska Studies is an online in-depth exploration of the rich geographic and cultural background of the state and its people from the early native peoples to the Russian era through statehood to the present. This course includes examination of the geography, history and the political and economic forces that have shaped contemporary Alaska. Content is organized around five themes: population, land, resource, governance and cultural landscape. The course seeks to ensure that students have a strong foundation in the historic and cultural contexts of issues facing the state so they will develop a broad sense of community and strengthen skills that will encourage thoughtful consideration of issues and choices facing Alaska.

## Alaska Studies 9-12 H3110SP Grade level 9-12. One semester, required. Prerequisite: None.

Alaska Studies is an in-depth exploration of the rich geographic and cultural background of the state and its people from the early native peoples to the Russian era through statehood to the present. This course includes examination of the geography, history and the political and economic forces that have shaped contemporary Alaska. Content is organized around five themes of population, land, resource, governance and cultural landscape. The course seeks to ensure that students have a strong foundation in the historic and cultural contexts of issues facing the state so they will develop a broad sense of community and strengthen skills that will encourage thoughtful consideration of issues and choices facing Alaska. Modified curriculum for Alaska Studies, as required by student's IEP.
World History (Circa 500 BC-AD 1800).
H3315 Grade level 10. Required. Two semesters. Prerequisite: None.

This course provides a study of world history. Included in the first semester of the ASD world history curriculum are the geographic regions of Greece, Rome, India, The Far East; China, Japan, Korea, and Africa. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored.

Included in the second semester are the geographic regions of the Middle East, ancient Americas, Byzantium, and Europe. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored.

## World History Online

(Circa 500 BC-AD 1800) . . . . . . . . . .H3315OLS1/H3315OLS2 Grade level 10. Required. One semester each.
Prerequisite: None.
This online course provides a study of world history. Included
in the first semester are the geographic regions of Greece, Rome, India, The Far East, China, Japan, Korea, and Africa. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored. Included in the second semester are the geographic regions of the Middle East, ancient Americas, Byzantium, and Europe. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored.

## World History 9-12

 H3315SPGrade level 9-12. Two semesters, required.

## Prerequisite: IEP.

This course provides a study of world history. Included in the 9-1 portion of the ASD world history curriculum are the geographic regions of Greece, Rome, India, The Far East; China, Japan, Korea, Africa, Middle East, ancient Americas, Byzantium, and Europe.. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored. Modified curriculum for World History, as required by student's IEP.

## World History , Honors

(Circa 500 BC-AD 1800). . . . . . . . . . . . . . . . . . . . H3315H

## Grade level 10. Two semesters.

## Prerequisite: Social studies teacher recommendation required.

This course provides an in-depth study of world history. Extensive reading, writing, research, and project development will be required on a daily basis outside of class to meet course expectations. Included in the first semester of the ASD world history curriculum are the geographic regions of Greece, Rome, India, The Far East; China, Japan, Korea, and Africa. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored.

Included in the second semester are the geographic regions of the Middle East, Ancient Americas, Byzantium, and Europe. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored.

## Advanced Placement World History: Modern . . . .H3313 Grade level 10-12. One year <br> Prerequisite: Instructor Approval <br> One full year meets the World History requirement or one-semester meets the social studies elective requirement and earns an additional one-semester general elective requirement.

AP World History: Modern is a college level course based on a global perspective of the world and human interactions from 1200 CE to the present day. The concepts for this course will be structured by four historical periods; Regional and Interregional Interactions (ca. 1200 to ca.1450), Global Interactions (ca. 1450 to ca. 1750), Industrialization and Global Integration (ca. 1750 to ca. 1900), Accelerating Global Change and Realignments (ca. 1900 to the present). Students will refine their analytical abilities and critical thinking skills in order to understand the historical
and geographical context, make comparisons across cultures, use primary sources, and learn to recognize different interpretations and historical frameworks. Students will become proficient at writing to the various types of essay prompts and answering the multiple-choice questions that will be on the AP exam.
U.S. History

H3317
Grade level 11. Required. Two semesters. Prerequisite: None.

This course provides the study of United States history with some integration of world history. Historiography, geography, economics, government, humanities, sociology, religions, philosophy, science, and technology are some of the themes/perspectives by which US history will be examined. The first semester will investigate/explore the American experience through the post WW I era (roaring twenties) and the beginning of the Great Depression. The second semester will investigate/explore the American experience from the Great Depression through contemporary America.

## US History Online . . . . . . . . . . . .H3317OLS1/H3317OLS2 Grade level 11. Required. One semester each. Prerequisite: None.

This online course provides the study of United States history with some integration of world history. Historiography, geography, economics, government, humanities, sociology, religions, philosophy, science, and technology are some of the themes/perspectives by which US history will be examined. The first semester will investigate/explore the American experience through the post WW I era (roaring twenties) and the beginning of the Great Depression. The second semester will investigate/explore the American experience from the Great Depression through contemporary America.

## U.S. History 9-12 <br> H3317SP <br> Grade level 9-12. Required. <br> Prerequisite: IEP.

This course provides the study of United States history with some integration of world history. Historiography, geography, economics, government, humanities, sociology, religions, philosophy, science, and technology are some of the themes/perspectives by which US history will be examined. U.S. History will investigate/explore the American experience until the stock market "crash" in 1929 and the beginning of the Great Depression. It will also investigate/explore the American experience from the Great Depression through contemporary America. Modified curriculum for U.S. History, as required by student's IEP.
U.S. History, Honors

H3317H

## Grade level 11. Two semesters.

Prerequisite: Social studies teacher recommendation required.
This course provides an in-depth study of United States history with some integration of world history. Extensive reading, writing, research, and project development will be required on a daily basis outside of class to meet course expectations. Historiography, geography, economics, government, humanities, sociology, religions, philosophy, science, and technology are some of the themes/perspectives by which US history will be examined. In the first semester this course will investigate/explore the American
experience through the post WWI ear (roaring twenties) and the beginning of the Great Depression. In the second semester this course will investigate/explore the American experience from the Great Depression through contemporary America.

## Advanced Placement United States History H3023

Grade level 11-12. Two semesters.
Prerequisite: None.
One full year meets the one semester social studies elective requirement and earns an additional one semester general elective requirement or one full year meets the US History requirement.

This course is designed to challenge the ambitious student who has the ability and interest in American history and is capable of doing lower division college level work. The purposes of this course are to provide a much more intensive study of the United States history and preparation for the advanced placement test in this field.

## Advanced Placement

US History Online . . . . . . . . . . .H3023OLS1/H3023OLS2
Grade level 11-12. One semester each.

## Prerequisite: None.

One full year meets the one semester social studies elective requirement and earns an additional one semester general elective requirement or one full year meets the US History requirement.

This online course is designed to challenge the ambitious student who has the ability and interest in American history and is capable of doing lower division college level work. The purposes of this course are to provide a much more intensive study of the United States history and preparation for the advanced placement test in this field.

## Economics H3080

Grade level 9-12. One semester. Prerequisite: None.

Students will examine the fundamental principles of economic theory and how they apply to their lives and the world around them. Students will learn the economic way of thinking as they study the role of consumers, producers and government in the economy. They will explore a number of microeconomic and macroeconomic issues, international markets, and financial literacy

## Economics Online

H30800L

## Grade level 9-12. One semester.

## Prerequisite: None.

This online course is designed to teach students economics concepts and principles and to introduce them to important economic institutions. Students will learn to apply economic reasoning to their lives as citizens, consumers, workers and producers.

## Business Economics

## Grade level 11-12. One semester.

## Prerequisite: None.

This course focuses on applying basic microeconomic and macroeconomic issues, international markets, and financial literacy to the creation and operation of a business. Students will learn the economic way of thinking as they study the role of consumers, producers and government in the economy. Students
may participate in a student-run business or online simulation as part of this course.

## Consumer Economics

 H3082
## Grade level 9-12. One semester.

## Prerequisite: None.

This course focuses on the economic way of thinking and application of basic economics with an emphasis on financial literacy. Students will explore a number of microeconomic and macroeconomic issues, and global markets as they relate to the individual in the economic system. They will learn how their economic choices effect their lives as citizens, consumers, workers and producers.

## Consumer Economics 9-12. <br> H3082SP <br> Grade level 9-12. One semester. <br> Prerequisite: IEP.

This course focuses on the economic way of thinking and application of basic economics with an emphasis on financial literacy. Students will explore a number of microeconomic and macroeconomic issues, and global markets as they relate to the individual in the economic system. They will learn how their economic choices effect their lives as citizens, consumers, workers and producers.
Consumer Economics 9-12 AC 1
H3018LS
Grade level 9-12. One semester.

## Prerequisite: IEP.

This course is designed as a transitional skills class for students with an IEP and enrolled in a Life Skills 1 program to prepare students for financial survival. Areas to be covered will be a study of sources and procedures necessary for job successes, which will include payroll deductions, income taxes, benefits and development of wise spending habits through sound money management. This course also addresses the skills necessary for successfully obtaining a job. This course is repeatable 10 times and may be counted as 5 credit of economics, social studies elective or general elective. Alternate curriculum for students enrolled in a Life Skills 2 as required by their IEP. This course is repeatable.

## Consumer Economics 9-12 AC 2 <br> H3018LS2

Grade level 9-12. One semester.

## Prerequisite: IEP.

This course is designed as a transitional skills class for students with an IEP and enrolled in a Life Skills 2 program to prepare students for financial survival. Areas to be covered will be a study of sources and procedures necessary for job successes, which will include payroll deductions, income taxes, benefits and development of wise spending habits through sound money management. This course also addresses the skills necessary for successfully obtaining a job. This course is repeatable 10 times and may be counted as . 5 credit of economics, social studies elective or general elective. Alternate curriculum for students enrolled in a Life Skills as required by their IEP. This course is repeatable.

## Advanced Placement Economics;

Micro and Macro
H3083 /H3084
Grade level 11-12. One semester each.
Prerequisite: None

## One full year meets both the economics and social studies elective requirement.

This is a college-level course divided into two sections and it is designed to prepare students for the Advanced Placement test. The first section, microeconomics, provides students with a thorough understanding of the principles of economics that apply to the functions of individual decision makers, consumers and producers. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government.

Macroeconomics is the second section of the course and provides students with a thorough understanding of the principles of economics that apply to an economic system as a whole. It places emphasis on the study of national income and price determination and also develops familiarity with economic performance measures, economic growth and international economics.

## Advanced Placement Economics,

## Micro Online

H3083OL
Grade level 11-12. One semester.
Prerequisite: None
Taking both Macro and Micro Economics meets both the economics and social studies elective requirement.

This is a college-level online course divided into two sections; it is designed to prepare students for the Advanced Placement test.

Microeconomics provides students with a thorough understanding of the principles of economics that apply to the functions of individual decision makers, consumers and producers. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government.

## Advanced Placement Economics,

Macro Online
H3084OL
Grade level 11-12. One semester, required Prerequisite: None

Taking both Macro and Micro Economics meets both the economics and social studies elective requirement.

This is a college-level online course divided into two sections; it is designed to prepare students for the Advanced Placement test.

Macroeconomics provides students with a thorough understanding of the principles of economics that apply to an economic system as a whole. It places emphasis on the study of national income and price determination and also develops familiarity with economic performance measures, economic growth and international economics.

## United States Government. .H3075

Grade level 12. One semester, required.

## Prerequisite: None.

This course is founded on the belief that to become an informed and active citizen, an understanding of government is essential. This course will feature both the structure of government and the function of politics. It will include both theory and practical application of the following: 1) foundations of United

States government, 2) institutions and policy making, 3) principles of the United States Constitution, 4) roles and responsibilities of the citizen, and 5) political culture.

## United States Government Online <br> H30750L <br> Grade level 12. One semester, required Prerequisite: None.

This online course is founded on the belief that to become an informed and active citizen, an understanding of government is essential. This course will feature both the structure of government and the function of politics. It will include both theory and practical application of the following: 1) foundations of United States government, 2) institutions and policy making, 3) principles of the United States Constitution, 4) roles and responsibilities of the citizen, and 5) political culture.

## United States Government 9-12 . . . . . . . . . . . . H3075SP <br> Grade level 9-12. One semester, required. Prerequisite: IEP.

This course is founded on the belief that to become an informed and active citizen, an understanding of government is essential. This course will feature both the structure of government and the function of politics. It will include both theory and practical application of the following: 1) foundations of United States government, 2) institutions and policy making, 3) principles of the United States Constitution, 4) roles and responsibilities of the citizen, and 5) political culture. Modified curriculum for United States Government, as required by student's IEP.

## Advanced Placement United States Government <br> Grade level 12. One semester. <br> Prerequisite: None.

This course is designed for the student who is capable of doing lower division college work. The AP U.S. Government and Politics class will address the following topics: 1) constitutional underpinnings of United States government, 2) political beliefs and behaviors, 3) political parties and interest groups, 4) the three branches of national government, 5) public policy making and 6) civil liberties and civil rights. This course will prepare students for the advanced placement test in U. S. Government and Politics and will fulfill the requirement for U. S. Government.

## Advanced Placement

US Government Online

## H3062OL

Grade level 12. One semester.

## Prerequisite: None.

Taking one semester of AP U.S. Government meets the government requirement.

This online course is designed for the student who is capable of doing lower division college work. The AP U.S. Government class will address the following topics: 1) constitutional underpinnings of United States government, 2) political beliefs and behaviors, 3) political parties and interest groups, 4) the three branches of national government, 5) public policy making and 6) civil liberties and civil rights. This course will prepare students for the advanced placement test in U.S. Government and Politics and will fulfill the requirement for U. S. Government.

## Advanced Placement Comparative

 Government and Politics .H2901
## Grade level 12. One semester.

## Prerequisite: None.

Taking one semester of AP Comparative Government and Politics meets the social studies elective requirement.

This course is designed for the student who is capable of doing lower division college work. The course provides intensive study of the different political and economic systems of the following countries: United Kingdom, France, Russia, China and Mexico, India or Nigeria. This course will prepare students for the advanced placement test in AP Comparative Government and Politics.

## Advanced Placement European History

 . H3441
## Grade level 11-12. Two semesters.

## Prerequisite: None.

One full year meets the one semester social studies elective requirement and earns an additional one semester general elective requirement.

This course offers students an opportunity for a challenging, in-depth examination of the course of European cultural development from the middle ages to contemporary times. Students will be prepared for the advanced placement test and will 1) develop an understanding of some of the principle themes in Modern European History, 2) learn to read historical material analytically and critically, 3) weigh historical evidence and interpretations and arrive at conclusions on the basis of informed judgments, 4) learn how to cite sources and credit the ideas and phrases of others, 5) use proficient expression in correct English, 6) research a subject carefully before drawing conclusions and gain familiarity with essay examinations, the use and interpretation of maps and other graphic materials, note-taking from both printed materials and lectures and writing short research papers.

## Advanced Placement Art History .H5017 <br> Grade level 11-12. One year <br> Prerequisite: Grade 11, 12 or Instructor Approval <br> Art Studio, Art I, Art II, AP Art Studio, World History or European History helpful <br> Two-semester course: AP Exam required for AP credit Material Fee: none <br> One full year meets the one semester social studies elective requirement and earns an additional one semester general elective requirement.

This course is designed for the student who desires to investigate the evolution of art from the Paleolithic to the present day. Students will be prepared for the advanced placement test and will: 1) Develop an understanding of the elements of art, fundamental art historical terminology, and technical processes; 2) Analyze how issues such as war events, patronage, gender, and the function and effect of art create the historical context, in which art is best understood; 3) Compare and contrast the painting, architecture, sculpture, and other media of art, within the Western tradition, between historical and stylistic periods, and; 4) Discuss art beyond the European tradition from among the following cultures: The Ancient Near East, Egypt, Africa beyond Egypt, Islam, the Americas, Asia, and Oceania.

## Social Studies 9-12 AC 1 <br> H3013LS1

Grade level 9-12. Two semesters.
Prerequisite: IEP.
This course is designed for students to learn about the world around them and to become informed and active citizens. Students will learn about the foundations of government, our own US Constitution, politics and the roles and responsibilities of being a good citizen. They will also learn about their local community and how they can be contributing members. Alternate curriculum for students enrolled in a Life Skills 1 class as required by their IEP. This course is repeatable.

## Social Studies 9-12 AC 2.

H3013LS2
Grade level 9-12. Two semesters.
Prerequisite: IEP.
This course is designed for students to learn about the world around them and to become informed and active citizens. Students will learn about the foundations of government, our own US Constitution, politics and the roles and responsibilities of being a good citizen. They will also learn about their local community and how they can be contributing members. Alternate curriculum for students enrolled in a Life Skills 2 class as required by their IEP. This course is repeatable.

## SOCIAL STUDIES ELECTIVES

The specific courses listed below are the courses that meet the $1 / 2$ credit social studies elective graduation requirement. Although organized into two categories, Geography/Area Studies and History/Social Sciences, any one course from either category meets that requirement. These semester-long courses are intended for juniors and seniors only.

## Geography/Area Studies

## Geography: Africa Studies. <br> H3430

Grade level 11-12. One semester.
Prerequisite: None.
Africa studies will focus on the physical geography and the diverse cultural forces that affect contemporary Africa. In this course, students will discuss early civilizations, imperialism, colonialism, the rise of nationalism and the emergence of independent African nations. The changing role of African nations in the modern world will be examined.

## Geography: Asia Studies .H3415 Grade level 11-12. One semester. Prerequisite: None.

Asia studies will focus on the physical geography and cultural factors that characterize this huge region. Students will examine the diverse social, political, cultural and economic forces that affect regions of the world's most populated continent. Students will discuss early civilizations, dynasties, religions, beliefs, environmental issues, sub-regions, changing history and the region's contributions to the world. Issues facing contemporary Asia will also be explored.

## Contemporary Problems

.H3655

## Grade level 11-12. One semester.

## Prerequisite: None.

This course will focus on the social, political, cultural and geographic forces that have created contemporary world "hot spots." Students will discuss the evolution of these issues on the world stage and the implications of their resolution or non-resolution.

## Environmental Studies

.H3092
Grade level 11-12. One semester.

## Prerequisite: None.

Environmental Studies emphasizes how the diverse people and cultures of the world affect the land on which they live. Students will examine the historical context of how local geography influenced the decisions that a people made. Then, as industrialization became widespread, how those decisions affected the world's geography and environment. The interrelationships existing between economic development and the environment will also be explored.
Geography: European Studies
H3638

## Grade level 11-12. One semester.

Prerequisite: None.
Approved by NCAA
European studies will examine the physical geography, cultures, history, economies and diversity of the people in this region. The course will focus upon an in-depth study of a selected sub-region or provide a comparative study of several European nations. Contemporary issues and problems will be examined as well as the region's impact upon the world.

## Global Geography

. H 3030
Global Geography, Honors H 3030 H

## Grade level 9-12. One semester.

## Prerequisite: None.

This course is ideal for those curious about our world. The course concentrates on developing geographic skills and concepts so that students can ask questions about the world and then gather, organize, analyze and apply the geographic information. For example, students will study world population growth and distribution, patterns of migration, how climate affects human habitation and distribution and how people use resources.

## Global Geography 9-12

H3030SP

## Grade level 9-12. One semester.

## Prerequisite: IEP.

This course is ideal for those curious about our world. The course concentrates on developing geographic skills and concepts so that students can ask questions about the world and then gather, organize, analyze and apply the geographic information. For example, students will study world population growth and distribution, patterns of migration, how climate affects human habitation and distribution and how people use re-sources. Modified curriculum for Global Geography, as required by student's IEP. The course is repeatable 10 times.

[^8]This course studies political geography among nations in the modern world. Emphasis is placed upon the history of United States foreign policy and how it is determined and implemented. Contemporary, topical issues will be studied in the context of their effect on the interests of the United States.

## Geography: Latin America Studies <br> .H3635 <br> Grade level 11-12. One semester. <br> Prerequisite: None.

This course will focus on the physical geography and cultural factors that characterize this region. Latin America includes Mexico, Caribbean nations and the nations of Central and South America. Students will study the characteristics which make the region unique and develop a knowledge of the contemporary issues. Current issues may include the development of a democracy, economic development, populations and environmental issues and challenges.

## Geography: Middle East Studies. <br> H3455 <br> Grade level 11-12. One semester. <br> Prerequisite: None. <br> Approved by NCAA

This course will focus upon the physical and cultural geography of this important region. The important role of the region in the global community will be examined. Students will investigate the relationships existing between the people and nations within the region. Key themes will address how the region's religion, terrorism and oil influences the world.

## Geography: North America Studies <br> H3636 Grade level 11-12. One semester. <br> Prerequisite: None.

This course will focus upon the physical and cultural geography of this region or selected sub-regions. An analysis of the relationships among North American nations and cultures may be conducted to examine the impact of the region on the world today. Within that geographic context, the course will focus upon the cultural and physical forces that affect contemporary North America.

## Geography: Pacific Rim Studies <br> H3033 <br> Grade level 11-12. One semester. <br> Prerequisite: None.

This course will focus upon the physical geography and diverse cultural elements found within the Pacific Rim region. Major countries surrounding and within the Pacific region will be the focus of study in this course. An analysis of the relationships among Pacific Rim cultures and nations will also be conducted to examine the impact of the region on the world today.

[^9]in a model United Nations as representatives of a member state. This participation may require a commitment of time beyond the regular class schedule.

## Geography: U.S. Regional Studies <br> Grade level 11-12. One semester. Prerequisite: None.

 .H3637U.S. Regional Studies will focus on the physical geography and cultural factors that characterize sub-regions in the United States. In this course, students will examine the geographic, political, cultural and economic diversity of the United States. Each region (e.g. Northwest, Southwest) will be examined for its uniqueness and its influence over other parts of the country. Students will analyze the evolution of American culture from an agrarian society to a technological-industrial society and investigate how this evolution has developed regional characteristics in areas such as foods, clothing, traditions, festivals, vocabulary and dialects

## History/Social Sciences

## Affective Skill Development 9-12 <br> H3135SP

Grade level 9-12. One semester. Prerequisite: IEP.

This course is designed for students with an IEP to assist with problem solving, anger management, conflict resolution, alternative coping skills and goal setting techniques. Individual needs and concerns are addressed on a student-by-student basis. This course is repeatable 10 times for .5 social studies elective credit or general elective credit.
Ancient Civilizations . . . . . . . . . . . . . . . . . . . . . . . H3470
Ancient Civilizations, Honors . . . . . . . . . . . . . . . H3470H
Grade level 9-12. One semester.

## Prerequisite: None.

This course is designed to allow an in-depth study of early worlds from the Americas to China, India, Africa and Mesopotamia. This course explores why and where early civilizations developed and compares their religion, culture, literature, science, technological achievements and their economic and political systems. Sample topics include: pyramids, rise and fall of great empires, high technology of the day, myths, arts, sports, foods and leisure of the ancients and great warriors and their weapons.

## Ancient Civilizations

H3470SP

## Grade level 9-12. One semester.

## Prerequisite: None

This course is designed to allow an in-depth study of early worlds from the Americas to China, India, Africa and Mesopotamia. This course explores why and where early civilizations developed and compares their religion, culture, literature, science, technological achievements and their economic and political systems. Sample topics include: pyramids, rise and fall of great empires, high technology of the day, myths, arts, sports, foods and leisure of the ancients and great warriors and their weapons.
Anthropology . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . H3020
Grade level 11-12. One semester.

What are common crimes? How do juvenile crime patterns compare with adult? What are the different types of crimes? How do we police? What is organized crime? How does a citizen become part of the solution? How are property crime patterns different from violent crime patterns?

## Dignity in Diversity

 .H3510
## Grade level 11-12. One semester.

## Prerequisite: None.

Dignity in Diversity focuses on four primary concepts to inspire students toward and prepare them for a democratic society. These concepts include democracy/equity, cross-cultural understanding, interdependence and socio-cultural exchange. The methodology of the course encourages students to understand more than one perspective in a dilemma, to place themselves in the position of other people and to be willing to express ideas in class without fear of ridicule. Through an interdisciplinary approach that uses social studies and literature, students have an opportunity to view the relationship of history to their lives and to explore the roles and responses of individuals and groups confronting contemporary difficult issues and dilemmas.

## The Holocaust and Human Behavior .H3513 Grade level 11-12. One semester. <br> Prerequisite: None.

This course allows students to explore, in-depth, one of the most fascinating yet tragic events of the twentieth century: The Holocaust. Students will examine the root causes which led to the rise of the Nazi party and the reaction of Germans-and the world-to Hitler and his plans of genocide. This course is best suited for individuals willing to reflect upon their own views of human behavior and consider the lessons of history. Questions which will be addressed include: what happens when prejudice and hatred are left unchecked? Can a democratic country produce a dictator? What did the Nazis believe and did anyone oppose them? How did Nazis make Germans obey orders? Have there been any other genocides like the Holocaust? Can individuals make a difference in the outcome of historic events?

Humanities of Western Civilizations. .H3505
Grade level 11-12. One semester.

## Prerequisite: None.

This course will explore the roots of western society from the rise of Greece through the formation of modern Europe. Students will examine western history, philosophy, arts and theology. The contributions of Western culture in the international arena and the effects of these interactions will also be examined. Students will investigate the following topics: contributions of the ancient classical civilizations in Greece and Rome, the role of western culture in creating democratic traditions, scientific and artistic advancements that made up the Renaissance, the roles that Judaism and Christianity have played in shaping the western world and beyond.

## Law Studies .H3625

Grade level 11-12. One semester.

## Prerequisite: None.

Law Studies is the place to discover how the legal system works. This course aids students in applying legal principles and
procedures through active participation in civil, criminal and constitutional mock trials. Sample questions that will be examined include: what rights do individuals have? What are the major types of law? Why do we have an adversarial system? How well will students do in court? How do we make justice happen? How is justice carried out in Alaska?

## Law Studies Online. <br> H3625OL <br> Grade level 11-12. One semester. Prerequisite: None.

Law Studies is the place to discover how the legal system works. This online course aids students in applying legal principles and procedures. Sample questions that will be examined include: What rights do individuals have? What are the major types of law? Why do we have an adversarial system? How well will students do in court? How do we make justice happen?

## Minority Groups and Ethnic Cultures .H3512 Grade level 11-12. One semester. Prerequisite: None.

This course is a study of the social, political, cultural and economic forces that affect minorities and ethnic cultures in the U.S. Students explore the customs, behaviors, issues and legacies of America's diversity. Sample questions that will be addressed include: who are the indigenous peoples of the United States? Who are the minority groups and ethnic cultures of the United States? What are the important issues facing minority groups and ethnic cultures in the U.S. today? What has been the progression of civil liberties for minorities in the U.S.? What have been and is the political/legal status of minority groups and cultures in the United States?

## On Your Own 9-12 AC <br> H3016LS1 <br> Grade level 9-12. One semester. Prerequisite: IEP.

This course is designed as a transitional skills class for students with an IEP and enrolled in a Life Skills 1 program to teach skills that will help students to successfully live independently in the future. This course provides opportunity to learn by doing; how to open a checking account, apply for a job, fill out an apartment application, create a budget, apply for credit and much more. Students will take several field trips and have many guest speakers from the community. Students will improve writing skills and math skills through practical applications in real life situations. This course is repeatable 10 times and may be counted as .5 credit of economics, social studies elective or general elective.

## On Your Own 9-12 AC 2 <br> Grade level 9-12. One semester. <br> Prerequisite: IEP.

H3016LS2

This course is designed as a transitional skills class for students with an IEP and enrolled in a Life Skills 2 program to teach skills that will help students to successfully live independently in the future. This course provides opportunity to learn by doing; how to open a checking account, apply for a job, fill out an apartment application, create a budget, apply for credit and much more. Students will take several field trips and have many guest speakers from the community. Students will improve writing skills and math skills through practical applications in real life situations.

This course is repeatable 10 times and may be counted as .5 credit of economics, social studies elective or general elective.

## On Your Own 9-12

 H3016SP
## Grade level 9-12. One semester.

 Prerequisite: IEP.This course is a designed as a transitional skills class for students with an IEP to teach skills that will help students to successfully live independently in the future. This course provides opportunity to learn by doing; how to open a checking account, apply for a job, fill out an apartment application, create a budget, apply for credit and much more. Students will take several field trips and have many guest speakers from the community. Students will improve writing skills and math skills through practical applications in real life situations. This course is repeatable 10 times and may be counted as .5 credit of economics, social studies elective or general elective.

## Philosophy

 . H3040Grade level 11-12. One semester.

## Prerequisite: None.

Philosophy is the study of systematic inquiry into basic questions, thoughts and beliefs regarding the human condition. Students will use logic and speculative reasoning to explore for answers and express their understanding of their thoughts and beliefs. The following questions will be examined: who are the great philosophers and what were their beliefs? How does one's philosophy shape their view of the world around them? What is the inherent nature of humankind and knowledge? What is the relationship between philosophy, religion and the supernatural? What are your beliefs about life and living? How is philosophy passed down through time? What is ideal behavior? How does Eastern philosophy differ from Western philosophy?

## Pre-Voc 9-12 <br> H3020SP

Grade level 9-12. One semester.
Prerequisite: IEP.
This course is designed as a transitional skills class for students with an IEP to teach skills that will help students successfully get and keep a job. Students will learn about the job market, how to look for a job, interviewing skills, career decision making, self-determination skills and more. Students will be able to match their interests and aptitude with a chosen career path. This course is repeatable 10 times and may be counted as .5 credit of economics, social studies elective or general elective.

## Psychology 1

H3685
Grade level 11-12. One semester. Prerequisite: None.

Psychology is the scientific study of human behavior from early childhood through old age. Students will explore how an organism's physical state, mental state and external environment affect behavior and the mental processes. Sample topics include: how people learn, think, feel and behave; how developmental stages are important in the human life cycle; how self-concept is developed through relationships with parents, peers and culture; and how brain functions are affected by environmental conditions.

Psychology 1 Online
H3685OL
Grade level 11-12. One semester.
Prerequisite: None.
This is an online course. Psychology is the scientific study of human behavior from early childhood through old age. Students will explore how an organism's physical state, mental state and external environment affect behavior and the mental processes. Sample topics include: how people learn, think, feel and behave, how developmental stages are important in the human life cycle, how self-concept is developed through relationships with parents, peers and culture, and how brain functions are affected by environmental conditions.

## Psychology 2 <br> H3686

Grade level 11-12. One semester.
Prerequisite: Psychology 1.
This course continues the study of the human mind and behavior by shifting the focus to the individual. Students will investigate the interactions of an individual with other people, how a person copes with stress, the causes of psychological disorders and the treatments of these disorders.

## Advanced Placement Psychology

H3687
Grade level 11-12. Two semesters.
Prerequisite: None.
This year-long course is designed to introduce the highly motivated student to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are introduced to the psychological facts, principles and phenomenon associated with each of the major sub-fields within psychology. They also learn about the methods psychologists use in their science and practice. Topics include: the history of psychology, contemporary approaches to behavior, how to understand one's own behavior, strategies for dealing with life experiences and how to apply psychological principles to society.

## Advanced Placement

Psychology Online . . . . . . . . . H3687OLS1/ H3687OLS2
Grade level 11-12. One semester each.
Prerequisite: None.
This year-long online course is designed to introduce the highly motivated student to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are introduced to the psychological facts, principles and phenomenon associated with each of the major sub-fields within psychology. They also learn about the methods psychologists use in their science and practice. Topics include: the history of psychology, contemporary approaches to behavior, how to understand one's own behavior, strategies for dealing with life experiences and how to apply psychological principles to society.
Social Skills Development 9-12
H9909SP
Grade level 9-12. One semester.
Prerequisite: IEP.
This course is designed for students with an IEP in learning a comprehensible approach to generalizing social skills, specifically: requesting, initiating and responding to peers, and/or adults, across various environments, both school and community
based. Individual needs and concerns will be addressed on a stu-dent-by-student basis. This course is repeatable 10 times for .5 social studies credit or general elective credit.
Social Skills Development 9-12 AC
H9909LS
Grade level 9-12. One semester.
Prerequisite: IEP.
This course is designed for students with an IEP and enrolled in a Life Skills class in learning a comprehensible approach to generalizing social skills, specifically: requesting, initiating and responding to peers, and/or adults, across various environments, both school and community based. Individual needs and concerns will be addressed on a student-by-student basis. Alternate curriculum for students enrolled in a Life Skills class. This course is repeatable 10 times for .5 social studies credit or general elective credit.

Sociology .H3045

## Grade level 11-12. One semester.

 Prerequisite: None.Sociology is a study of how human behavior is shaped by the groups to which we belong. Students will examine patterns of social life, make predictions about behavior and investigate other cultures. Sample questions in Sociology include: what roles do families play? What role does money play in creating groups in society? How do schools and other social institutions shape human behavior? Why do people join gangs?
Sociology Online
H3045OL

## Grade level 11-12. One semester.

 Prerequisite: None.Sociology is the study of how human behavior is shaped by the groups to which we belong. In this online course students will examine patterns of social life, make predictions about behavior and investigate other cultures. Sample questions in Sociology include: What roles do families play? What role does money play in creating groups in society? How do schools and other social institutions shape human behavior? Why do people join gangs?
Twentieth Century American Eras . H3556

## Grade level 11-12. One semester.

## Prerequisite: None.

This course is an in-depth study of specific time periods and themes in U.S. history over this past century. A major goal of this course is to understand how life today is related to previous life experiences. Sample topics in this course include: the Cold War, the Sixties, the Roaring Twenties, the Depression and the Civil Rights Era.

## United States Military History . H 3230 Grade level 11-12. One semester. Prerequisite: None. <br> This course will examine the origin and growth of U.S. military forces. Sample topics will include: leaders and strategies, successes and failures, allies and enemies, women and minorities and air, sea and ground forces.

Westward Movement H3235
Grade level 11-12. One semester.

## Prerequisite: None.

Westward Movement is a course that studies the frontier history and geography of the U.S. as a young nation expands from coast to coast. Sample topics in Westward Movement include: Native American cultures and histories; life on the Kentucky frontier (e.g. Daniel Boone, splitting wood and salt pork); men and women of the frontier; Native American and settlers views of each other; treatment of Native Americans; Louisiana Purchase and explorers of the territory; Texas independence, annexation and the Alamo; cultural diversity in the west; gold rushes, cowboys/girls; cattle drives and cowtowns.

## Women's History <br> .H3527

Grade level 11-12. One semester.

## Prerequisite: None.

Women's History is a course where students explore current issues of women, their major achievements and the historical impact women have had on humanity. Sample topics in Women's History are: the changing roles of women and their social, marital, economic and legal-political status; the roles of men; the agendas and accomplishments of selected women leaders; issues that affect women (e.g. violence, poverty, education, equal opportunity); and challenges and legacies of women throughout history.

## WORLD LANGUAGES

## AMERICAN SIGN LANGUAGE

## American Sign Language I. . . . . . . . . . . . . . . . . . . . H4905

Grade level 9-12. Two semesters
Prerequisite: None
The students will develop a vocabulary of approximately 1200 signs. Students will focus on mastering the basics of fingerspelling, numbers, colors, facial grammar, and sentence structure. Students will also learn conversational/cultural behaviors necessary to hold a beginning-level conversation in ASL, with Deaf users of the language. A basic understanding of Deaf culture will also be presented, along with basic ASL literature, to provide students with a broad picture of language and culture.

## American Sign Language II

H4907
Grade level 9-12. Two semesters
Prerequisite: American Sign Language I or teacher approval.
The students will increase their proficiencies in the skills which they learned in ASL I. Students will continue to focus on fingerspelling, numbers, facial grammar, and sentence structure. Students will further develop the conversational/cultural behaviors necessary to hold a beginning-level conversation. Mastery of grammatical concepts and language structures learned in ASL I will be emphasized and refined. A more in-depth understanding of ASL literature will be presented as well as additional cultural information to aid student development of awareness and appreciation for the unique linguistic relationship between language and culture among the Deaf who use ASL to communicate.

[^10]The students will learn intermediate level vocabulary for communication with Deaf individuals, learning how to express abstract concepts in ASL. Students will apply their knowledge of the linguistic components of ASL in a variety of interactive situations both receptively and expressively. Knowledge of English idioms and multiple English synonyms will be expanded. Culture connotations of common signs and phrases will be emphasized. Students will understand concepts and issues related to Deaf culture, Deaf history, and the Deaf community. Course includes receptive and expressive readiness activities, sign vocabulary, ASL grammatical structure, receptive and expressive finger spelling, conversational behaviors and various aspects of Deaf culture.

## American Sign Language IV H4910

## Prerequisite ASL III \& teacher recommendation

The students will continue development of expressive and receptive skills learned in ASL I, II, \& III. Students will continue study and performance of forms of ASL literature and continue to analyze complex grammatical structures. They will explore concepts of linguistics as it relates to variations in ASL and emphasize current research as well as fieldwork. Students will also experience the language outside the classroom through interaction with the Deaf community. This course is designed to build student vocabulary, develop greater fluency in expressive signing, and develop confidence in receptive skills.

## FRENCH

French I (novice low) . . . . . . . . . . . . . . . . . . . . . . . . . . H4421
Grade level 9-12. Two semesters.

## Prerequisite: None.

Students learn to exchange information in simple terms about topics relating to themselves, their family and their leisure activities in French. They will be introduced to the culture of Frenchspeaking countries and regions. The emphasis is on vocabulary development and elementary grammatical structures. The main goal of this course is to progress toward a novice-level ability in using French in school and the community.

## French I Online (novice low) . . . . H4421OLS1/H44210LS2 Grade level 9-12. . One semester each. Prerequisite: None

Students learn to exchange information in simple terms about topics relating to themselves, their family and their leisure activities in French. They will be introduced to the culture of Frenchspeaking countries and regions. The emphasis is on vocabulary development and elementary grammatical structures. The main goal of this course is to progress toward a novice-level ability in using French in school and the community.

## French II (novice mid)

.H4431

## Grade level 9-12. Two semesters.

## Prerequisite: French I.

Building on what was learned in Level I, students expand their ability to speak, read, write and listen in French. The emphasis is on continued vocabulary development and the acquisition of additional simple grammatical structure. There will be many opportunities to converse and write stories in French about
familiar topics. Students begin applying their French language skills to communicate in basic real-life situations. They also continue to learn about the culture of French-speaking people. The goal of this course is for students to function at a mid-novice to high-novice level of proficiency.

## French II Online (novice mid) . . . .H44310LS1/H4431OLS2 Grade level 9-12. One semester each. Prerequisite: French I

Building on what was learned in Level I, students expand their ability to speak, read, write and listen in French. The emphasis is on continued vocabulary development and the acquisition of additional simple grammatical structure. There will be many opportunities to converse and write stories in French about familiar topics. Students begin applying their French language skills to communicate in basic real-life situations. They also continue to learn about the culture of French-speaking people. The goal of this course is for students to function at a mid-novice to high-novice level of proficiency.

## French III (novice high to intermediate low) <br> H4441 <br> Grade level 9-12. Two semesters. <br> Prerequisite: French II

Students exchange information and begin to share opinions about themselves, their school and community. They expand their vocabulary and learn increasingly complex grammatical structures needed for more sophisticated communication. Students use technology and media to gather cultural information and learn about current events. This course is tailored to the low-intermediate level of proficiency in French.

## French III Online <br> H44410LS1/H44410LS2 <br> (novice high to intermediate low) <br> Grade level 9-12. One semester each. Prerequisite: French II

Students exchange information and begin to share opinions about themselves, their school and community in this online class. They expand their vocabulary and learn increasingly complex grammatical structures needed for more sophisticated communication. Students use technology and media to gather cultural information and learn about current events. This course is tailored to the low intermediate level of proficiency in French.

## French IV (intermediate mid to intermediate high). <br> H4451 Grade level 9-12. Two semesters.

Prerequisite: French III.
Building on what was learned in Level III, students work with an increased number of authentic listening and reading materials. They learn to describe, explain, summarize and express opinions in detail. Students can discuss current events and give topical cultural reports in French. Emphasis will be on learning idiomatic expressions and more detailed grammatical concepts. The goal for this course is for students to be able to function at a mid-intermediate to high-intermediate level of proficiency.
French V (Intermediate high to pre-advanced). . . . . . . . . H4461
Grade level 9-12. Two semesters.
Prerequisite: French IV.
Students continue their development of communication skills
through various media, which may include literature, art, music, film, history or current events. This can be an individualized course defined by student needs and interest in French. The goal for this course is to meet the students' desires to advance in their acquisition of communication skills, cultural understanding and personal growth.

## Advanced Placement

French Language and Culture (pre-advanced) . . .H4471 Grade level 11-12. Two semesters.

## Prerequisite: French IV, V, or teacher recommendation.

The goal of this course is to prepare each student to take the annual AP French Language exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## Advanced Placement French Language and Culture Online (pre-advanced) . . . . . . . .H44710LS1/H44710LS2 Grade level 11-12. Two semesters.

## Prerequisite: French IV, V, or teacher recommendation.

The goal of this online course is to prepare each student to take the annual AP French Language exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## GERMAN

## German I (novice low)

.H4221

## Grade level 9-12. Two semesters.

## Prerequisite: None.

An introduction to the German language and culture. The emphasis is on listening with understanding, speaking with clarity, reading and writing. Instruction begins with situation dialogues. Deductive analysis is used to lead to grammatical principles, but the emphasis is on vocabulary development. Students in their course learn to exchange information in simple terms about every day experiences. Students identify the countries where German is spoken, as well as current events in those countries.

## German I Online (novice low) . H4221OLS1/H4221OLS2 Grade level 9-12. Two semesters. Prerequisite: None.

This online course is an introduction to the German language and culture. The emphasis is on listening with understanding, speaking with clarity, reading and writing. Instruction begins with situation dialogues. Deductive analysis is used to lead to grammatical principles, but the emphasis is on vocabulary development. Students in their course learn to exchange information in simple terms about every day experiences. Students identify the countries where German is spoken, as well as current events in those countries.

German II (novice low to novice high)
H4231

## Grade level 9-12. Two semesters.

## Prerequisite: German I.

Emphasis is further vocabulary development and includes increased writing practice. Additional points of grammar are introduced. Students give oral reports and refine their discussions of their daily lives. Students continue to learn about the culture of the German people, which may include famous figures from history as well as aspects of modern life in Germany, which could include sports or entertainment personalities and popular pastimes. Current events in the German speaking world are discussed.

## German II Online

(novice low to novice high) . . . H42310LS1/H42310LS2 Grade level 9-12. Two semesters.
Prerequisite: German I.
This online course emphasizes further vocabulary development and includes increased writing practice. Additional points of grammar are introduced. Students give oral reports and refine their discussions of their daily lives. Students continue to learn about the culture of the German people, which may include famous figures from history as well as aspects of modern life in Germany, which could include sports or entertainment personalities and popular pastimes. Current events in the German speaking world are discussed.

## German III (novice high to intermediate low) H4241 Grade level 9-12. Two semesters. <br> Prerequisite: German II.

Continues to develop and perfect the four skills: listening, speaking, reading and writing, with more emphasis on German literature, history and culture. Grammatical elements are reviewed on a more advanced level and are incorporated into conversations and compositions on a broad spectrum of topics.

## German IV (intermediate mid to intermediate high) . . . . . H4251 Grade level 9-12. Two semesters. <br> Prerequisite: German III.

Increased emphasis is placed on reading and writing communications. Concentration may be directed toward reading and discussing German literature from classical material to contemporary works. Main events of German history may be covered as well as one or more interdisciplinary thematic units.

> German V (intermediate low to pre-advanced low). . . . . . H4261 Grade level 9-12. Two semesters.
> Prerequisite: German IV.
> This is an individualized course designed to strengthen grammatical weaknesses and perfect oral skills. Materials are selected according to student interest. Advanced placement programs are possible at this level.

## Advanced Placement German Language and Culture <br> H4271 <br> (intermediate to pre-advanced) <br> Grade level 11-12. Two semesters. <br> Prerequisite: German IV or teacher recommendation.

The goal of this course is to prepare each student to take the
annual AP German Language Exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a much higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## GERMAN IMMERSION

## German Immersion: Contemporary Youth and Culture . H 4280 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Participation in the German Immersion Program Grades 1-8, or teacher recommendation.

Designed specifically for advanced students of German, this course, through in-depth thematic study, will compare and contrast various aspects of the modern German-speaking world with their own, and in turn, gain a better understanding of themselves and the world in which they live. Themes include family life, youth culture, leaders and heroes, music, environment, and modern society.

## German Immersion: Germany-Past

and Present
.H4283

## Grade level 9-12. Two semesters.

## Prerequisite: Participation in the German Immersion Program

 Grades 1-8, or teacher recommendation.This advanced German course is designed specifically for high school students who have completed the K-9 German immersion program or students who have achieved an advanced level of German. This course is designed as a capstone course in the K-12 German immersion continuum, offering students the opportunity to explore in-depth complexity of German history up to modern times. While the focus will be on the 20th century to today, additional other components of German/European history will be integrated to inform modern thought. The goal of this course it to build and maintain a high level of proficiency in German while being immersed in German history. The course is taught exclusively in German and students are required to speak only German in class.

## German Immersion: Perspectives on German Culture through Literature, Film, and Media . . . . . H4281

Grade level 9-12. Two semesters
Prerequisite: Participation in the German Immersion Program grades 1-9, or teacher recommendation.

This advanced German course is designed specifically for high school students who have completed the K-9 German immersion program or students who have achieved an advanced level of German. Through in-depth thematic study, this course will compare/contrast various aspects of contemporary German youth literature with classic German youth literature. Students will in turn, gain a better understanding of themselves and the world in which they live. Themes include family life, youth culture, utopic and dystopic societies and environment and modern society. Modern media and film sources will also be studied in the course. The goal of the Jugendliteratur course is to build and maintain a
high level of proficiency in German. Thus, the course is taught in exclusively in German and students are required to speak only German in class.

## JAPANESE

## Japanese I (novice low to novice mid) <br> H4721

## Grade level 9-12. Two semesters.

## Prerequisite: None.

The emphasis of this course is on the ability to communicate orally, emphasizing vocabulary development and basic language functions. The two kana syllabaries, hiragana and katakana, along with some basic characters, are taught in this course. Students will use the language to exchange information about topics relating to themselves, their families and their leisure activities. A general introduction to Japanese culture is also integrated throughout this course.

## Japanese II (novice high). <br> .H4731 <br> Grade level 9-12. Two semesters. Prerequisite: Japanese I.

This course builds on the study of basic vocabulary and grammatical structures from Japanese I. In the area of written communication, utilization of Kana (hiragana and katakana) continues. Approximately 25-50 kanji (Chinese characters) are also introduced. Students will use the language to exchange information about topics relating to geography, friends, weather, seasons and lifestyles. Students participate in dialogues about familiar situations and use less simple patterns. They read familiar material and write short, directed compositions. Japanese customs, beliefs and aspects of contemporary and traditional culture are also integrated throughout this course.

## Japanese III (novice high to intermediate low) H4741 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Japanese II.

Students continue to develop proficiency in listening, speaking, reading and writing. They expand their vocabularies and learn more complex language functions to communicate in more sophisticated ways. Oral and written tasks will integrate Level I and Level II topics, with a wider array of communicative topics. Consistent with all topics, students negotiate conversations, engage in limited discourse and demonstrate socio-cultural appropriateness. Students demonstrate an ability to recognize and produce an additional 25-50 kanji (Chinese characters). Topics related to Japan's history, contemporary and traditional culture, as well as current events are integrated throughout this course.

[^11]
## Japanese V (intermediate) . H 4745

## Grade level 9-12. Two semesters.

## Prerequisite: Japanese IV.

Students continue the study of the Japanese language by completing the study of basic grammar, by learning new vocabulary and by preparing creative works in writing. They progress to use more complex sentences using abstract vocabulary. Reading selections of increased difficulty will be incorporated for readings and discussions. In writing and reading, the number of kanji (Chinese characters) increases. Cultural topics, such as the relationship with people with nature, the conduct of business, major historical events and the ties with the United States, are integrated throughout this course.

## Advanced Placement Japanese Language and Culture H4746AP <br> (intermediate low to intermediate mid) <br> Grade level: 11-12 <br> Prerequisite: Japanese II, IV, V, Japanese for Fluent Speakers II, IV or teacher recommendation.

This course is comparable to a college/university Japanese language course and supports students as they develop the productive, receptive and cultural skills necessary to communicate with native speakers of Japanese. Students will study Japanese through content-based themes such as Japanese history, tradition, contemporary culture and social issues. This course prepares students for the annual Advanced Placement Japanese Language and Culture Exam and is conducted exclusively in Japanese.

## JAPANESE IMMERSION

## Japanese for Fluent Speakers I <br> H4790

## Grade level 9 . Two semesters.

Prerequisite: Participation in the Japanese Immersion Program Grades 1-8, or teacher recommendation.

This course uses students' broad vocabulary base, proficiency with basic communicative structures and mastery of the hiragana and katakana syllabaries, as well as several hundred kanji (Chinese characters) to focus on oral communication. Students will apply familiar grammar functions to new communicative tasks, as well as cement proper usage of latent grammar function skills. Students will use new vocabulary and grammar functions to learn about and express opinions about topics such as tourism in Alaska, Japanese vs. American peers and Japanese customs and beliefs. Both oral and written communication will be conducted exclusively in Japanese.

## Japanese for Fluent Speakers II

 . H 4792
## Grade level 10. Two semesters.

## Prerequisite: Japanese for Fluent Speakers I or teacher recommendation.

This course builds on students' ability to use the basic communicative structures presented in JFS $1 / 2$. The course emphasizes continued vocabulary development and development of communicative functions to enhance oral communication skills. Kanji (Chinese characters) for production and recognition are increased. The themes of tradition vs. change and comparative cultures are used to learn about topics such as: images in the

Japanese media, sumo and the role of family. Students use a variety of written and oral resources to learn and express their opinions about various topics. Both oral and written communication will be conducted exclusively in Japanese.

## Japanese for Fluent Speakers III. <br> H4794

## Grade level 11-12. Two semesters. <br> Prerequisite: Japanese for Fluent Speakers II or teacher recommendation.

This course builds vocabulary, grammatical structures and socio-cultural understanding presented in JFS $3 / 4$. This course emphasizes continued vocabulary development and development of communicative functions to enhance oral communication skills. Kanji (Chinese characters) for production and recognition are increased. Students use Japanese to deepen their understanding of Japanese history, with specific focus on the Heian period, the Maiji period, World War II (the road to war, pearl harbor, Hiroshima, Japanese Internment, the changing perceptions of Japan's war involvement) and modern Japan and its ties with the U.S. Students use a variety of written and oral resources to learn and express their opinions about various topics. Both oral and written communication will be conducted exclusively in Japanese.

## Japanese for Fluent Speakers IV.

H4796 Grade level 11-12. Two semesters. Prerequisite: Japanese for Fluent Speakers III or teacher recommendation.

This course builds the vocabulary, grammatical structures and socio-cultural understanding presented in JFS 3/III. This course emphasizes continued vocabulary development and development of communicative functions to enhance speaking, listening, reading and writing communication skills. Kanji (Chinese characters) for production and recognition are increased. Students use Japanese to learn about Japanese business, careers involving Japanese and current events. This class also helps prepare student to transition into college-level Japanese courses. Students use a variety of written and oral resources to learn and express their opinions about various topics. Both oral and written communication will be conducted exclusively in Japanese.

## LATIN

## Latin I. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . H4821

Grade level 9-12. Two semesters.

## Prerequisite: None.

This course is designed to introduce the beginning student to the Latin language and Roman culture. The course focuses on the development of reading comprehension. Vocabulary and grammar are studied in the context of reading passages into which cultural information has been integrated. Students learn to pronounce Latin according to accepted convention and simple oral Latin is used to aid students in comprehension. Students will gain some understanding of the effect of Roman civilization on the western world. Word derivations and Latin word elements are also studied to expand the student's vocabulary.
Latin I Online

## .H4821OLS1/H4821OLS2

Grade level 9-12. Two semesters.
Prerequisite: None.

This online course is designed to introduce the beginning student to the Latin language and Roman culture. The course focuses on the development of reading comprehension. Vocabulary and grammar are studied in the context of reading passages into which cultural information has been integrated. Students learn to pronounce Latin according to accepted convention and simple oral Latin is used to aid students in comprehension. Students will gain some understanding of the effect of Roman civilization on the western world. Word derivations and Latin word elements are also studied to expand the student's vocabulary.

## Latin II

 .H4831
## Grade level 9-12. Two semesters.

## Prerequisite: Latin I.

The emphasis of Latin II is to continue the development of reading and comprehension skills and the acquisition of a deeper understanding of the similarities and differences between the Roman world and our own. New vocabulary and more grammatical structures are learned as the reading progresses to longer and more complicated passages. Oral Latin is used to help students understand reading selections. The study of Latin word elements continues.

## Latin II Online

.H4831OLS1/H4831OLS2

## Grade level 9-12. Two semesters.

Prerequisite: Latin I.
The emphasis of Online Latin II is to continue the development of reading and comprehension skills and the acquisition of a deeper understanding of the similarities and differences between the Roman world and our own. New vocabulary and more grammatical structures are learned as the reading progresses to longer and more complicated passages. Oral Latin is used to help students understand reading selections. The study of Latin word elements continues

## Latin III . H 4841 <br> Grade level: 9-12. Two semesters. <br> Prerequisite: Latin I and II.

Students in this course continue to develop reading and comprehension skills, working primarily with authentic Latin texts. Students are introduced to a variety of genres including histories, orations, poetry, drama and letters. They become acquainted with some major Roman writers of the classical period. Students further refine their understanding of classical mythology and the influence of the Roman World on contemporary culture. Time permitting, students may become acquainted with selections from Medieval Latin.
Latin IV. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . H4851
Grade level: 9-12. Two semesters.
Prerequisite: Latin I, II and III.
Students continue the study of classical Latin using authentic texts. Students learn to scan Latin poetry, to identify the various tropes and figures of speech used in poetry and oration and to appreciate the individual styles of the authors studied. The course may provide students an opportunity to prepare for the AP Examination in Latin and focuses either on Vergis, Aeneid or on the poems of Horace, Ovid and Catullus and the speeches
of Cicero. Students may prepare original compositions in Latin including letters, orations and poems.

## Advanced Placement Latin <br> H4856AP <br> Grade level: 11-12. Two semesters. <br> Prerequisite: Latin III or teacher recommendation.

Students in this course will complete university-level coursework in AP Latin Literature, focusing on selections from The Aeneid of Vergil and Commentarii de Bello Gallico of Julius Caesar. Students will critically analyze works for form and content. Students will participate actively in discussions on literary topics to prepare for the Advanced Placement Latin Exam.

## MANDARIN CHINESE

## Mandarin Chinese I (novice low to novice mid). . . . . . . H4321 Grade level 9-12. Two semesters. Prerequisite: None.

The emphasis of this course is on the ability to communicate orally, emphasizing vocabulary development and basic language functions. Students will use the language to exchange information about topics relating to themselves, their families and leisure activities. Students will learn basic radicals and stroke order in writing and be introduced to Chinese culture.

## Mandarin Chinese I Online. . . . .H4321OLS1/H4321OLS2 (novice low to novice mid) Grade level 9-12. Two semesters. Prerequisite: None.

The emphasis of this online course is on the ability to communicate orally, emphasizing vocabulary development and basic language functions. Students will use the language to exchange information about topics relating to themselves, their families and leisure activities. Students will learn basic radicals and stroke order in writing and be introduced to Chinese culture.

## Mandarin Chinese II (novice high) <br> H4323 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Mandarin Chinese I.

This course builds on the study of basic vocabulary and grammatical structures from Chinese I. Students will transfer from dependence on the romanized system, pinyin, to reading and writing the Chinese characters. Students will initiate and sustain short conversations on simple topics in everyday situations, recognize future and past references and speak the language with increased confidence and clearer articulation. Chinese customs, beliefs and aspects of contemporary and traditional culture are also integrated throughout this course.

## Mandarin Chinese II Online . . . .H4323OLS1/H4323OLS2 (novice high) <br> Grade level 9-12. Two semesters. <br> Prerequisite: Mandarin Chinese I.

This online course builds on the study of basic vocabulary and grammatical structures from Chinese I. Students will transfer from dependence on the romanized system, pinyin, to reading and writing the Chinese characters. Students will initiate and sustain short conversations on simple topics in everyday situations, recognize future and past references and speak the language with increased confidence and clearer articulation. Chinese customs,
beliefs and aspects of contemporary and traditional culture are also integrated throughout this course.
Mandarin Chinese III . H 4325
(novice high to intermediate low) Grade level 9-12. Two semesters. Prerequisite: Mandarin Chinese II.

Students continue to develop communicative proficiency in Chinese and expand their ability to write in Chinese, from simple words to paragraph descriptions of pictures and short essays. Students will develop a better understanding of the cultural implications of the Chinese language in communication through the study of selected readings of authentic Chinese materials.

## Mandarin Chinese IV

. H 4327

## (intermediate low to intermediate mid)

## Grade level 9-12. Two semesters.

## Prerequisite: Mandarin Chinese III.

Students develop more sophisticated communication skills and refine their reading and writing skills. Students will be exposed to Chinese television, plays and contemporary Chinese literature. Students will make oral and/or written presentations on assigned topics exclusively in the target language.

## Mandarin Chinese V (intermediate). . H 4329 Grade level 9-12. Two semesters. <br> Prerequisite: Mandarin Chinese IV.

Students continue the study of Chinese language through expanded vocabulary, more complex sentence structures and authentic reading selections. Students will increase their skills in creative writing and speaking. Cultural topics related to Chinese culture and history will be integrated throughout the course.

## Advanced Placement Mandarin Chinese Language and Culture (intermediate to pre-advanced) . . . . . . . . . H4331 <br> Grade level 11-12. Two semesters. <br> Prerequisite: Mandarin Chinese IV or teacher recommendation.

The goal of this course is to prepare each student to take the annual AP Mandarin Chinese Language Exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a much higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## RUSSIAN

Russian I (novice low)
H4621
Grade level 9-12. Two semesters.

## Prerequisite: None.

Students learn to exchange information in simple terms about topics relating to themselves and their family in Russian. They will be introduced to the geography and culture of Russia. Students will master the Cyrillic alphabet and they will present short dramatizations of skits, songs, or poetry. The emphasis is on vocabulary development and simple grammatical structures. The main goal is for students to progress toward a novice-level ability in using Russian in school and the community.

Russian II (novice low to novice mid).
.H4631
Grade level 9-12. Two semesters.
Prerequisite: Russian I.
This course builds on the novice level. Students expand their ability in reading, speaking, writing and listening and extend their vocabulary on topics of everyday experiences. They continue to acquire simple grammatical structures as needed for meaningful communication. Students progress toward a novice-high level of ability.

## Russian III (novice mid to novice high) <br> . H4641

## Grade level 9-12. Two semesters.

Prerequisite: Russian II.
Students exchange and begin to share opinions about themselves, their school and community. Students use technology to communicate in Russian. They use Russian media to gather information. They are able to retell traditional Russian stories orally and in writing. Students begin to work at the low intermediate ability level in Russian.

## Russian IV (novice high to intermediate low) <br> . H4651 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Russian III.

Students compare common courtesies and non-verbal cues in Russian. They learn to describe concerns and express dis/satisfaction with products or services. They exchange information on past and future plans and experience songs, literature and art enjoyed by their Russian peers. Students present short plays and skits and prepare audio or video projects. They continue to progress through the intermediate level of ability.

## Russian V (novice high to intermediate mid). . . . . . . . . . H4653 <br> Grade level 9-12. Two semesters.

## Prerequisite: Russian IV.

Students define their needs and interests in further study of Russian. They continue to learn about the culture of Russia in relation to the situations in which they might find themselves expected to communicate. This is an individualized course which continues the work begun in Russian III and IV. Students are progressing toward an intermediate high level ability in Russian.

## RUSSIAN IMMERSION

## Russian Immersion: Sovremenaya Molodyoj' i kul'tura (Contemporary Youth and Culture) (Intermediate low to Intermediate high) Современная жизнь и культура <br> . H 4654 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Middle School Russian Immersion or teacher recommendation

This course is intended for grade 9 Russian immersion students who are continuing from an ASD middle school Russian immersion program. The focus is to advance students' language skills and content knowledge through themes of interest to young people. Through in-depth thematic study, students will compare and contrast various aspects of the Russian-speaking world with their own, and in turn, gain a better understanding of themselves and the world in which they live. Themes include family life,
youth cultures, leaders and heroes, and multiculturalism and society. This course is conducted exclusively in Russian

## Russian Immersion:

Русская литература и СМИ
(Russian Literature and Media) . . . . . . . . . . . . . . . . H4655
(intermediate low to intermediate high)

## Grade level 9-12. Two semesters

## Prerequisite: Russian immersion or teacher recommendation

This course is intended for Grade 10 Russian immersion students. It is aligned with themes used in IB/AP Russian curriculum. Study of Russian and its people, improving Russian language skills and content knowledge through themes that are aligned with AP and IB. Students will read and write using authentic literary works and media: advertising, magazines, newspapers, and film. This course is exclusively in Russian.

## Russian Immersion:

## Rossia I Alyska: Istoricheskiye svyazi

(Russia and Alaska Historical Perspectives) . . . . .H4657

## (pre-advanced)

## Grade level 9-12. Two semesters.

## Prerequisite: Russian Immersion or teacher recommendation.

Through advanced study of Russian, students will explore three unique aspects of history, and examine the similarities and connections of the lives, customs, and cultures of northern peoples. The focus is the improve language skills and content knowledge through themes that are aligned with AP and IB courses.

## Advanced Placement Russian

Language and Culture (pre-advanced). . . . . . . . . H4660
Grade level: 11-12. Two semesters. Prerequisite: Russian V, VI, immersion, native speaker or teacher recommendation.

The goal of this course is to prepare each student to take the annual AP Russian Language Exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a much higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## SPANISH

## Spanish I (novice low)

 H4021Grade level 9-12. Two semesters.

## Prerequisite: None.

Students begin to learn to communicate orally and in written form. They learn to understand and produce simple expressions and are introduced to the cultures of Spanish speaking countries. The emphasis is placed on vocabulary development and simple grammar. Throughout the course students apply language skills to real-life communication. Students in this course learn to exchange information in simple terms. The main goal for this course is for students to progress towards a novice level ability in using Spanish in school and the community.

[^12]This is an online course. Students begin to learn to communicate orally and in written form. They learn to understand and produce simple expressions and are introduced to the cultures of Spanish speaking countries. The emphasis is placed on vocabulary development and simple grammar. Throughout the course students apply language skills to real-life communication. Students in this course learn to exchange information in simple terms. The main goal for this course is for students to progress towards a novice level ability in using Spanish in school and the community.

## Spanish II (novice mid)

H4031

## Grade level 9-12. Two semesters.

Prerequisite: Spanish I.
Students continue to expand upon oral and written communications through vocabulary building and grammar advancement. Students in this course learn to understand and produce simple language related to familiar topics. Students also continue to learn about the culture of the Spanish-speaking peoples. The goal of this course is for students to function at a novice-mid to nov-ice-high level of proficiency, depending on their background and to begin to show signs of intermediate-low level of proficiency.

## Spanish II (novice mid) Online . . .H4031OLS1/H4031OLS2

 Grade level 9-12. One semester each. Prerequisite: Spanish I.Students continue to expand upon oral and written communications through vocabulary building and grammar advancement. Students in this online course learn to understand and produce simple language related to familiar topics. Students also continue to learn about the culture of the Spanish-speaking peoples. The goal of this course is for students to function at a novice-mid to novice-high level of proficiency, depending on their background, and to begin to show signs of intermediate-low level of proficiency.

## Spanish III (novice high to intermediate low) <br> H4041 <br> Grade level 9-12. Two semesters. <br> Prerequisite: Spanish II.

Students continue their development of communication skills. Increased emphasis is placed on responding to written and verbal input, as well as continued study of Spanish-speaking cultures. In this course students learn more complex grammar and continue to expand upon vocabulary acquisition in order to satisfy some survival needs and courtesy requirements. The main goal of this course is for students to progress towards an intermediate low level of proficiency.

## Spanish III (novice high to intermediate low) <br> Online <br> .H4041OLS1/H4041OLS2

Grade level 9-12. One semester each.
Prerequisite: Spanish II.
Students continue their development of communication skills. Increased emphasis is placed on responding to written and verbal input, as well as continued study of Spanish-speaking cultures. In this online course students learn more complex grammar and continue to expand upon vocabulary acquisition in order to satisfy some survival needs and courtesy requirements. The main goal of this course is for students to progress towards an intermediate low level of proficiency.

## Spanish IV (intermediate mid to intermediate high) .H4051 <br> Grade level 9-12. Two semesters.

## Prerequisite: Spanish III.

Students will improve in oral and written communication through exposure to thematic/interdisciplinary study. Students will also be introduced to advanced grammar through contextual relevancy. The goal of this course is for students to be able to function at an intermediate mid to intermediate high proficiency level.
Spanish V (intermediate high to pre-advanced). . . . . . . . H4061 Grade level 9-12. Two semesters.

## Prerequisite: Spanish IV.

Students continue their development of communication skills through various media, which may include literature, art, music, film, history or current events. The goal of this course is to meet the students desires to advance in their acquisition of communication skills, cultural understanding and personal growth.

## Advanced Placement Spanish

Language and Culture (pre-advanced).
Grade level: 11-12. Two semesters.
Prerequisite: Spanish V, VI, native speaker or teacher recommendation.

The goal of this course is to prepare each student to take the annual AP Spanish Language Exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a much higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## AP Spanish Language Online . .H40710LS1/H40710LS2 <br> Grade level 11-12. . One semester each.

Prerequisite: Spanish AP, V, VI, native speaker or teacher recommendation

The goal of this online course is to prepare each student to take the annual AP Spanish Language Exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a much higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## Spanish for Fluent Speakers I . . . . . . . . . . . . . . . . . H4090

## (pre-advanced)

## Grade level 9-12. Two semesters.

## Prerequisite: Native speaker of Spanish.

Students who have already developed a high level of oral/ aural language proficiency in Spanish will have an opportunity for more concentrated language development in Spanish through writing, vocabulary expansion and literature. This course will meet the specific needs of both English-speaking and Spanishspeaking students. Students whose second language is Spanish will be able to refine their literacy skills and communicate with native speakers. Students whose first language is Spanish will strengthen and refine their literacy skills, develop problem-solving skills and increase their self-esteem entirely in their primary
language. The skills they develop will transfer to their acquisition of English as a second language.

## Spanish for Fluent Speakers II

H4092
Grade level 10-12. Two semesters.
Prerequisite: Spanish for Fluent Speakers I or teacher recommendation.

This course builds on students' ability to use the basic communicative structures presented in SFS I. The course emphasizes continued vocabulary development and development of communicative functions to enhance oral communication skills.

## SPANISH IMMERSION

## Spanish Immersion:

Vistas Juveniles del Mundo Hispano
(Intermediate low to intermediate high)
Grade level 9-12. Two semesters.
Prerequisite: Middle School Spanish Immersion or Spanish III or teacher recommendation.

This course is intended for grade 9 Spanish immersion students who are continuing from an ASD middle school Spanish immersion program. The focus is to advance students' language skills and content knowledge through themes of interest to young people. Through in-depth thematic study, students will compare and contrast various aspects of Hispanic culture with their own, and in turn, gain a better understanding of themselves and the world in which they live. Themes include families, ecology, immigration, heroes and leaders, myths and legends, and youth. This course is conducted exclusively in Spanish.

## Spanish Immersion:

Perspectivas Literarias
H4065
(intermediate low to intermediate high)
Grade level 10-12. Two semesters
Prerequisite: Spanish Immersion: Vistas Juveniles del Mundo Hispano, Spanish V or teacher recommendation.

This course is intended for students continuing in the Spanish immersion program and heritage Spanish speakers. Students will refine their Spanish language with an emphasis on literacy skills. Students red and discuss current and past authors' work that include various genres of literature including letter writing, poetry, drama, biography, autobiography, periodicals, journal writing, fiction narrative, non-fiction narrative and short story. This course is conducted exclusively in Spanish.

## Spanish Immersion:

Estudios Latinoamericanos.
. H 4096
(intermediate mid to pre-advanced)
Grade level 10-12. Two semesters.
Prerequisite: Spanish Immersion: Perspectivas Literarias, AP Spanish Language or Literature or teacher recommendation. One elective Spanish or Social Studies credit, not repeatable.

This course is an integrated study of Latin America and the Spanish language and is intended for students continuing in the ASD Spanish immersion programs. Students in this course will study historical and contemporary issues, including geography, political events, economics, cultural influences, movement and social change as primary perspectives for studying Latin America,
its language and culture. Students will analyze and process primary source information in Spanish. Students will also reinforce and expand their skills in Spanish grammar, vocabulary and fluency through a content-integrated approach. This course is conducted exclusively in Spanish. This course may be taken for Spanish or social studies elective credit.

## GENERAL ELECTIVES

## Advanced Mentorship

.H9985
Grade level 9-12. One semester.
Prerequisites: Certified gifted.
The student is paired with a professional or expert for a set period of time, to study special interests or to meet a need that is not provided for in the regular school program. An outline of activities will be arranged for each individual education plan. May be taken 8 times and either for pass/fail or a letter grade.

Aide

> H9090 (Teacher) H9200 (Office) H9300 (Library) H9400 (Tutor)

## Grade level 9-12. One semester. <br> Prerequisite: Instructor's permission.

Provides meaningful work experience in the field of education. A program will be established cooperatively with the student, the instructor and the department chairperson. The student aide program also provides experience in the following areas: office, guidance office, library and IMC, nurse's office, science labs and tutoring. The student may select the area of interest provided he or she has the approval of the appropriate staff member and the department chairperson. The student may select only one of the above areas in any given semester and may earn no more than one credit per year as a student aide.

## AVID-Advancement Via

Individual Determination . . . . . . . . . . . . . . . . . . . . . H9981

## Grade level 9-12. One semester.

Prerequisite: 2.0-3.5 GPA, student/parent contract, one honors or AP class in schedule or willingness to take class.

The mission of the AVID class is to ensure that all students, especially the least served student in the middle, will succeed in a rigorous curriculum, complete a rigorous college preparatory path, enter mainstream activities of the school, increase their enrollment in four-year colleges and become educated and responsible participants and leaders in a democratic society. AVID students are required to maintain an AVID binder, take Cornell notes in each class, take one college entrance exam each year, complete all homework assignments, commit to studying outside of school each day, participate in community service, attend school, be on time and behave as a good citizen. May be taken 8 times.
Communicate 9-12 AC 1 . . . . . . . . . . . . . . . . . H9982LS1 Grade level 9-12. One semester.

## Prerequisite: IEP.

This course is designed to support students enrolled in a Life Skills 1 class using alternate curriculum to teach functional communication skills across settings; within school and community. Students will improve their academic, social and work related
communication skills as addressed in the IEP. The course is repeatable for general elective credit.

Communicate 9-12 AC 2
H9982LS2
Grade level 9-12. One semester.
Prerequisite: IEP.
This course is designed to support students enrolled in a Life Skills 2 class using alternate curriculum to teach functional communication skills across settings; within school and community. Students will improve their academic, social and work related communication skills as addressed in the IEP. The course is repeatable for general elective credit.

## Community Involvement

H9960
Grade level 10-12. One semester. Online course, open enrollment. Prerequisite: Active participation in a community service program, parental permission and instructor's approval.

This course is designed to promote social and emotional learning for students involved in school-based community service while further developing their leadership and facilitation skills. Participating students will be expected to serve 60 hours of community service, attend 20 hours of facilitation training, complete reading response assignments, participate in a collaborative journaling and design and implement a service learning project. Since this is an open enrollment course, it is not a course that can be included for calculating eligibility or full-time student status. Students will have two consecutive semesters to complete all coursework to be eligible for a .5 Elective credit. May be repeated 4 times.

## Independent Study

.Varies
Grade level 10-12. One semester.
Prerequisite: See Curriculum Principal for specific course numbers and forms. This applies to all subject areas.

The program in Independent Study is for the student who has the self-discipline and interest for work. Each student will design the course of study according to choice, interest, ability and intent in relation to the school's philosophy and policies. Independent Study promotes self-reliance, initiative and intense inquiry without a structured classroom situation. It is available to any student who can meet the requirements for enrollment. Independent Study for credit, must be initiated by the student. The student should decide on a program to follow and write a project proposal which will include an outline or description of those items included in the Independent Study Course Proposal Form. Student must work under the direction of an in-house certificated teacher.

## Lead Facilitator for Transitions . <br> H9413

Grade level 9-12. One semester.

## Prerequisite: Application required.

This is a class where students design and lead experiential-ly-based lessons aimed at helping students who are new to their schools to transition successfully to their school and learn skills instrumental in aiding their future life transitions. The course may be repeated once for elective credit.
Math Peer Tutor.
H9402
Grade level 11-12. One semester.
Prerequisite: Must have completed Algebra I and Geometry with a grade of A or B and must be recommended by their current math instructor or the math department chair.

The Math Peer Tutor will work under the guidance of the classroom teacher and work with students during their math class to help "fill in the gaps" that impede their math progress. The specific goals for the tutor are to provide the student enrolled in the math course a means for regaining control of their math performance and learning, encourage the math students to become intellectually independent and responsible learners and help the math students see the "big picture." The course may be repeated four times for elective credit.

## Model Facilitator for Transitions

H9412
Grade level 9-12. One semester.
Prerequisite: Application required. Successful completion of at least one semester of Lead Facilitator for Transitions class.

The purpose of this course is to provide further training and facilitation skills to those students who have shown exceptional leadership skills as Lead Facilitators for the Transitions class. These students design and lead experientially-based lessons and provide leadership to their fellow facilitators at a more advanced level. The course may be repeated once for elective credit.
Riflery
.H9780
Grade level 9-12. Quarter/Semester
Prerequisite: Parental permission
General elective credit ONLY. Repeatable for credit.
National Rifle Association indoor qualification course of fire is used. Teaches prone, kneeling and standing position using an air rifle that is provided by the school.

## School Government

.H9701

## Grade level 9-12. One year.

## Prerequisite: Students who are elected to school government will

 be members of the class.This course deals with the problems of government, specifically school government. The class will cover varied areas of social studies; government, economics, sociology and psychology. They will work in the area of establishing a more effective representative government of student bodies. May be taken 8 times.

## Senior Strategies <br> . H 8371

## Grade level 11-12. One semester.

## Prerequisite: None.

## Academic Credit: 1/2 Elective.

The Senior Strategies course prepares students for independent living and responsibilities. Organizational skills, financial management, and consumer awareness will be developed. Students will develop portfolios, filing systems, budgets and plan for long term goals. An introduction to automobile expenses, housing contracts, healthy food decisions and career related skills will enhance the skills students will need for independent living as they leave their secondary schools students will have an opportunity to examine personal relationships, family decisions and the responsibilities associated in these areas.

## Student Technology Leader.

H9511

## Grade level 9-12. One semester. Repeatable for credit

## Prerequisite: none

GenYES is a student-centered research-based program for school-wide technology integration. GenYES students work
with teachers in their building to design technology-infused lessons. The resulting collaboration provides the students with project-based learning and the teachers with on-site professional development. The GenYES program includes online tools that support student and teacher collaboration and a student-run help desk.

## Study Skills 9-12

H9920SP
Grade level 9-12. One semester.

## Prerequisite: IEP.

This course is designated for students with an IEP. Students receive direct instruction in study skill strategies and assignments to reinforce the correct implementation of these skills. Students will also be offered time each day to work on their content area class work. This course may be counted for up to 1.0 English elective credit and then counted as general elective credits.

## Work Experience. <br> Grade level 10-12. Four semesters maximum Prerequisite: None.

H8990

Students may earn a 5 Elective credit for every 112.5 hours they are employed at a supervised, approved site. (During the summer term, a student can earn 1.0 credit for 225 hours of work and 1.5 credits for 337.5 hours.) Hours are documented with pay stubs each time the student receives a pay check. Some additional paperwork and assignments are required. This is a great way to earn elective credit in school while you are earning money at work!

## Work Experience 9-12 <br> H9805SP

## Grade level 9-12. One semester.

Prerequisite: IEP.
This course is designated for students with an IEP. The work experience program will grant special education students credit for working and learning on the job. The program grants credit to students that are legally employed and earning a paycheck. Credit may also be granted to students that volunteer with a legitimate non-profit organization or government office. This course is repeatable and students can earn .5 general elective for every 112.5 hours worked. Hours are counted in a semester only and are not carried over from one semester to the next.
Work Experience 9-12 AC 1................ . H9805LS1 Grade level 9-12. One semester.

## Prerequisite: IEP.

This course is designated as a transitional skills class for students with an IEP and enrolled in a Life Skills 1 program. Students will participate in individual and group activities designed to develop and increase vocational skills at the high school level. Emphasis will be on the vocational areas identified on the IEP. This course is repeatable for general elective credit.

[^13]school level. Emphasis will be on the vocational areas identified on the IEP. This course is repeatable for general elective credit.

## Work Experience Online . . . . . . . . . . . . . . . . . . H98050L Grade level 10-12. One semester. Four semesters maximum.

 Prerequisite: None.Work Experience Online is a course that supports students who are employed at a supervised, approved site. Students may earn .5 credit for every 112.5 hours they are employed. 1.0 credit may be earned for 225 hours and 1.5 credits may be earned for 337.5 hours. Hours are documented with pay stubs. Additional paperwork and assignments are required.

Yearbook H9671

## Grade level 9-12. One year. No English credit.

Prerequisite: None.
This open elective course provides experience in design, preparation, production and finance of the school yearbook, with emphasis on photography, copy writing and layout. This course demands student responsibility in order to meet publisher's deadlines. Students should expect to spend time outside class on this activity. The course may be offered through any department and does not grant English credit. Students may repeat Yearbook for general elective credit. May be taken 4 times.

## ASD VIRTUAL

## LANGUAGE ARTS

## English I Online. <br> H01200LS1/H0120OLS2

Grade level 9. Required. One semester each.

## Prerequisite: None.

This online course incorporates an integrated approach to the teaching of reading and writing. Students read a variety of fiction and nonfiction world literature with an emphasis on literary analysis, including drawing inferences and analyzing main ideas. Students are taught the writing process and write in varying modes and for different purposes and audiences throughout the year. Grammar and vocabulary skills are integrated throughout each unit.

## English II -

World Literature Online
H0122OLS1/ H0122OLS2

## Grade level 10. Required. One semester each.

## Prerequisite: None.

This online course incorporates an integrated approach to the teaching of reading and writing with a focus on world literature. This full-year required course incorporates an integrated approach to the teaching of listening, speaking, reading and writing to meet the Common Core State Standards. Students read a variety of fiction and nonfiction world literature with an emphasis on literary analysis, including drawing inferences and analyzing main ideas; media presentations from a variety of perspectives; and dramatic interpretations from plays and excerpts. Students are taught writing process and write in varying modes and for different purposes and audiences throughout the year. Grammar and vocabulary skills are integrated throughout each unit. The fundamentals of formal speech, both to persuade and inform, are also important elements of this world literature course.

## English III -

## US Literature Online. <br> .H0124OLS1/H0124OLS2

Grade level 11. Required. One semester each.

## Prerequisite: None

English III US Literature: This full-year online required course focuses on American literature and how it has helped shape our nation. Students will explore and study great literary works from throughout United States' history including Early American, Civil War, Great Depression and Civil Rights eras. In addition to reading a variety of rich fiction and informational texts, students will improve their writing, critical thinking, speaking, vocabulary, and grammar skills through lessons aligned to the Common Core State Standards. Sharpening their skills through performance tasks such as on demand and extended writing and formal and informal presentations will prepare students to achieve career and college readiness.

## English IV Online <br> .H0126OLS1/H0126OLS2 <br> Grade level 12. Required. One semester each. <br> Prerequisite: None

English IV is a full year, 12th grade thematic online course including four units of study: Morality, Citizenship, Social Justice, and Nature \& Environment. These universal themes are
intended to engage students in the critical thinking they must practice to become active participants in their communities. The course meets the Common Core State Standards and focuses on American literature, including seminal U.S. political documents, and world literature, including Shakespeare and other important authors. As the culminating high school English course, the primary writing focus is on expository and argumentative writing, including researched arguments, multimedia presentations, and essays in the major patterns of exposition. Grammar and vocabulary are integrated with the reading, writing, speaking and listening content within each thematic unit in order to ensure instruction of all standards.

## Advanced Placement Literature and Composition Online . . . . . H0146OLS1/H0146OLS2 Grade level 11-12. One semester each. Two semesters of this course will fulfill the composition credit required for graduation. <br> Prerequisite: None.

This is an online course. Advanced Placement Literature and Composition, a college level course, provides an in-depth study of several major literary works and prepares students for the AP Exam in Literature and Composition, a means of obtaining advanced placement in English at most colleges. Writing is an integral part of the course and exam, and writing assignments focus on the critical analysis of literature and include expository, analytical, and argumentative essays. Reading in this course is both wide and deep, building upon the reading done in previous English courses. Students read works from several genres, including poetry and drama, and periods, from the sixteenth to the twenty-first century.

## Advanced Placement Language and Composition Online . . . . . H0245OLS1/H0245OLS2 Grade level 11-12. One semester each. Two semesters of this course will fulfill the composition credit required for graduation. <br> Prerequisite: None.

This is an online course. Advanced Placement Language and Composition is a college level course that assists students in becoming skilled readers of literature and writers who compose for a variety of purposes. This course also prepares students for the AP Exam in Language and Composition, a means of obtaining advanced placement in English at most colleges. An intensive analysis of literature will develop students' awareness of the use of language and influence their writing.

## Gothic Literature Online. <br> H0372OL

## Grade level 9-12. One semester.

## Prerequisite: None

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This online course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have
gained an understanding of and an appreciation for the complex nature of dark fiction.
Digital Composition
H0252OL
Grade level 11-12. One semester.

## Prerequisite: None. NOT NCAA APPROVED

The curriculum supports a venue for students to explore and apply knowledge of digital tools and related resources as a means for increased media literacy, written expression and publishing. Students will practice the process and art of composition and then transform select pieces into one of many electronic forms, such as movies, podcasts, blogs, electronic surveys, and websites. Essays, 38 Not all courses in this catalog will be offered at all schools at any one time. articles, and literature selections are integrated throughout the unit plans. A critical review of websites (content and design) is another component of this class, as well as an examination of the ethical responsibilities of electronic publishers

## Technical Writing in the 21st Century. <br> H02500L <br> Grade level 11-12. One semester.

## Prerequisite: None.

This writing course rigorously explores technical writing by studying the conventions and formats of the genre. Students will learn to write more clearly, concisely, and credibly. There will be a review of grammar and punctuation, as well as the rules for sentence construction and document organization. Students will produce products that are practical, user friendly, client driven, and professional. The writing will be business oriented and reflective of real world usage.
Strategic Writing.
H96860L

## Grade levels 9-12. One semester.

## Prerequisite: None.

This course is offered as English elective credit for the first semester and general elective credit for succeeding semesters. Strategic Writing is designed to address the literacy needs of students who want to achieve greater writing success in high school and beyond. Assessment data will identify areas for skill and strategy development to allow teachers to individualize and differentiate instruction. Students will write daily to hone skills and develop fluency. Instruction will focus on the writing process, including pre-writing, drafting, revision, and editing. Student will write in various genres and styles; analyze and improve sentence, paragraph, and essay structure; and work on proper grammar, spelling, and punctuation. They will read regularly and use technology tools to support the writing process.

## World Mythology Online

H0436OL

## Grade level 11-12. One semester.

## Prerequisite: None.

This is an online course. World Mythology examines the common elements found in myths from a variety of cultures, including the Middle East, Egypt, Africa, Asia, Northern Europe, and the Americas. Students will read ancient texts, plays, epics, poetry and contemporary literature containing allusions to world myths. Topics of study will include the historical and theoretical basis of myths and archetypes, including creation, heroes, monsters, tricksters, and quests. World Mythology will include extensive reading, discussion, creative and analytical writing.

## MATH

## Algebra Readiness Online. <br> H1344OL

Grade level 9-12. One semester.
Prerequisite: This online course can not be taken by students who have successfully completed Pre-Algebra, Survey of Algebra or Algebra A or B, or Algebra I or any higher level math course.

This online course is designed to prepare students for success in an algebra course. The emphasis will be on continued development of pattern recognition, computational skills, elementary algebra topics, and the use of technology.

## Algebra B Online. <br> H1347OLS1/ H1347OLS2

Grade level 10-12. One semester each.
Prerequisite: First semester enrollment requires at least one of the following:

1. A grade of " $C$ " or better in 8 th grade math.
2. A grade of " C " or better in Pre-Algebra.
3. Recommendation or approval of student's most recent math instructor or math department chairperson.
The student can NOT have earned credit for the second semester of Algebra I or any higher level math class. The prerequisite for the second semester of Algebra B is the successful completion of the first semester or consent of instructor or math department chairperson.

This online course reviews and extends problem solving, data analysis, the use of technology (i.e., scientific calculator, graphing calculator, computer), the theory, use and understanding of the fundamental operations on real numbers and linear equations, graphing linear equations in a variety of forms and work with data, equations and functions. The course will cover systems of linear equations, quadratic functions, exponential functions, polynomial functions, rational functions and discrete math using appropriate related applications. This course is the equivalent of the second semester of an Algebra I course.

## Algebra I Online <br> H1352OLS1/ H1352OLS2

Grade level 9-12. One semester each.
Prerequisite: First semester enrollment requires at least one of the following:

1. A grade of " $C$ " or better in 8 th grade math.
2. A grade of " $C$ " or better in Pre-Algebra.
3. Recommendation or approval of student's most recent math instructor or math department chairperson.
The prerequisite for the second semester of Algebral is the successful completion of the first semester or consent of instructor or math department chairperson. Students who have successfully completed Algebra B or Survey of Algebra can NOT take Algebra I.

This online course reviews and extends problem solving, data analysis, the use of technology (i.e., scientific calculator, graphing calculator, computer), the theory, use and understanding of the fundamental operations on real numbers, expressing quantitative statements in the language of algebra, solving equations and inequalities, polynomials, the use of rational expressions in equations, coordinate graphing, irrational numbers, solution of quadratic equations and related applications.

[^14]department chairperson. The prerequisite for the second semester of Algebra II is the successful completion of the first semester or consent of instructor and/or math department chairperson.

This online course includes problem solving, data analysis, the use of technology (i.e., graphing calculator, computer), basic operations with polynomials, solving equations and inequalities, sequences and series, relations and functions, systems of equations in two and three variables, matrices, irrational and complex numbers through the solution of quadratic functions and polynomial functions of higher than first degree and an introduction to logarithms.

## Geometry Online. <br> H1502OLS1/ H1502OLS2

Grade level 9-12. One semester each.
Prerequisite: A grade of " $C$ " or better in Algebra I or consent of previous mathematics instructor or math department chairperson.
The prerequisite for the second semester of Geometry is the successful completion of the first semester or consent of instructor or math department chairperson.
Approved by NCAA
This online course covers the study of plane and three dimensional geometry with emphasis on clarity and precision of language and the logical development of geometric principles in deductive reasoning and proof including work with points, lines, planes, angles, congruent triangles, circles, polygons and transformations.

## Pre-Calculus with

## Trigonometry Online <br> H1662OLS1/ H1662OLS2

Grade level 10-12. One semester each.
Prerequisite: A grade of "B" or better in Geometry and Algebra Il or permission of previous mathematics instructor or math department chairperson. The prerequisite for the second semester of Pre-calculus with Trig is the successful completion of the first semester or consent of instructor or math department chairperson.

This online course covers logarithmic and exponential functions, analytic geometry, introduction to limits and the derivative, sequences and series, circular and trigonometric functions, graphs, laws, identities, inverses and their applications, vectors and complex numbers. The emphasis of this course is on the concepts that build toward understanding calculus. It will follow an applications approach and use graphing calculators and other appropriate technology.

## AP Computer Science . . . . . . . .H1201OLS1/H1201OLS2 <br> Grade level: 11-12. One semester each. <br> Prerequisite: Algebra II

This online AP Computer Science is a year-long introductory college-level course which covers the basics of Java in two semesters and is geared specifically toward high school students who plan to take the AP Computer Science A exam. This class is open to 11th and 12th graders who have successfully completed Algebra II.

## Advanced Placement Statistics

Online ............................H1701OLS1/H1701OLS2
Grade level 11-12. One semester each.
Prerequisite: First semester enrollment requires a grade of "B" or better in Algebra II. The prerequisite for the second semester of AP Statistics is the successful completion ("C" or better) of the
first semester or the consent of the instructor or math department chairperson.

The purpose of this online course is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will be expected to be able to use appropriate technology to interpret data and will be expected to be able to communicate their results in an understandable form.

## Advanced Placement

Calculus AB Online
H1706OLS1/H1706OLS2
Grade level 11-12. One semester each.
Prerequisite: "B" or better in Pre-Calculus and Algebra II or consent of the previous mathematics instructor or math department chairperson.

This online course includes the study of functions and graphs, derivatives and their application, analytic geometry, limits and continuity and includes the use of current technology.

## AP Calculus BC Online. <br> .H1709OLS1/H1709OLS2

Grade level 11-12. One semester each.
Prerequisite: "B" or better in AP Calculus AB; a 3 or higher on the AP Calc AB test; or consent of the Calculus BC instructor or math department chairperson.

As with other courses designated with Advanced Placement, this online course is introductory college level material. The student is expected to meet this college level workload to be successful. This course includes the study of functions and graphs, derivatives and their application, analytical geometry, limits and continuity, integrals, parametric equations, polar functions and vector analysis. Additional techniques and applications for differentiation and integration will be developed. Polynomial approximations will be explored through the Maclaurin and Taylor Series. Convergence and divergence of sequences and series will be investigated. Appropriate technology will be incorporated throughout the course.

## SCIENCE

Astronomy Online
H26200L Grade level 10-12. One semester. Physical science.
Prerequisite: None.
This online course is designed to build a coherent understanding of the earth-space relationship. Emphasis will be towards the development of astronomical concepts such as planetary motion, structure of galaxies and various theories of the formation of the universe. Course includes the use of various astronomical instruments.

## Biology I Online

H2232OLS1/H2232OLS2
Grade level 9-12. One semester each. Life science
Prerequisite: Grade 10-12: none. Grade 9: 3.5 GPA in 8th grade core subjects, Algebra I and teacher recommendation.

The basic biology course and prerequisite for all biology electives. This online course will include a study of the chemical basis of life such as the cellular processes of respiration, photosynthesis, diffusion and osmosis. Cell division, DNA and enzyme action will also be covered. The course also includes an extensive treatment of introductory botany, zoology, ecology and genetics.

## Earth Sciences Online

H26100L

## Grade level 10-12. One semester. Physical science. <br> Prerequisite: None.

This online course is a survey of the various branches of sciences concerning the earth. The student has the opportunity to explore a wide variety of topics such as oceanography, historical geology, rock and mineral identification, astronomy, physical geology, meteorology, composition and formation of the formations of the early and various geological processes of change. This course is not open to students who have successfully completed Geology I.

## Forensic Science I Online <br> H25600L

## Grade level 10-12. One semester. Life or physical science Prerequisite: Biology I required, Chemistry I recommended.

This online course focuses on various aspects of forensic science and modern criminal investigation analysis. It integrates biology, geology, physics, chemistry, anatomy, medical sciences and critical thinking skills. Topics include structures and functions of the human body, processing a crime scene, physical evidence, questioned documents, serology and pathology. In addition, the course may cover selected topics in toxicology, drug and alcohol abuse, odontology, entomology, forensic art, terrorist and disaster response and emergency medical procedures.

## Forensic Science II Online H25700L

Grade level 10-12. One semester. Life or physical science
Prerequisite: Biology I required, Chemistry I recommended.
This online course follows Forensic Science I. It focuses on various aspects of forensic science and modern criminal investigation analysis. It integrates biology, geology, physics, chemistry, anatomy, medical sciences and critical thinking skills. Topics include DNA analysis, textiles, trace evidence, firearms, tool marks and arson investigation. In addition, the course may cover selected topics in toxicology, drug and alcohol abuse, odontology, entomology, forensic art, terrorist and disaster response and emergency medical procedures.

## Marine Science, Biology Online

H2305OL

## Grade level 10-12. One semester. Life science

## Prerequisite: Biology l.

This online course is a study of marine life found on shores, in bays, estuaries, intertidal zones and in ocean depths. The commercial and environmental importance of various forms of marine life will also be examined.

## Physical Sciences Online <br> H2615OL Grade level 10-12. One semester. Physical science. Prerequisite: None.

This online course is a very basic introduction to physical science that will stress the general principles of chemistry and physics. The basic physics section will include emphasis in simple machines, basic electricity and the various forms of energy. The chemistry section will cover matter, mixtures and compounds. The student will be presented with the practical side of physical science that emphasizes the everyday uses of physics and chemistry.

## SOCIAL STUDIES

## World History Online

(Circa 500 BC-AD 1800) . . . . . H3315OLS1/H3315OLS2
Grade level 10. Required. One semester each.
Prerequisite: None.
This online course provides a study of world history. Included in the first semester are the geographic regions of Greece, Rome, India, The Far East, China, Japan, Korea, and Africa. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored. Included in the second semester are the geographic regions of the Middle East, ancient Americas, Byzantium, and Europe. Geography, humanities, religions, government, economy, society, science, and technology are some of the themes/perspectives by which these areas of the world will be explored.

## US History Online . . . . . . . . . . H3317OLS1/H3317OLS2 <br> Grade level 11. Required. One semester each. Prerequisite: None.

This online course provides the study of United States history with some integration of world history. Historiography, geography, economics, government, humanities, sociology, religions, philosophy, science, and technology are some of the themes/perspectives by which US history will be examined. The first semester will investigate/explore the American experience through the post WWI era (roaring twenties) and the beginning of the Great Depression. The second semester will investigate/explore the American experience from the Great Depression through contemporary America.

## United States Government Online <br> Grade level 12. Required. One semester. Prerequisite: None.

H3075OL

This online course is founded on the belief that to become an informed and active citizen, an understanding of government is essential. This course will feature both the structure of government and the function of politics. It will include both theory and practical application of the following: 1) foundations of United States government, 2) institutions and policy making, 3) principles of the United States constitution, 4) roles and responsibilities of the citizen, and 5) political behavior.

## Advanced Placement US Government Online H3062OL Grade level 12. One semester. <br> Prerequisite: None. <br> Taking one semester of AP U.S. Government meets the government requirement.

This online course is designed for the student who is capable of doing lower division college work. The AP U.S. Government class will address the following topics: 1) constitutional underpinnings of United States government, 2) political beliefs and behaviors, 3) political parties and interest groups, 4) the three branches of national government, 5) public policy making and 6) civil liberties and civil rights. This course will prepare students for the advanced placement test in U.S. Government and Politics and will fulfill the requirement for U. S. Government.

## Consumer Economics

H3082OL

## Grade level 9-12. One semester. NOT NCAA APPROVED

This course focuses on the economic way of thinking and application of basic economics with an emphasis on financial literacy. Students will explore a number of microeconomic and macroeconomic issues, and global markets as they relate to the individual in the economic system. They will learn how their economic choices effect their lives as citizens, consumers, workers and producers.

## Economics Online

H30800L

## Grade level 9-12. One semester.

## Prerequisite: None.

This online course is designed to teach students economics concepts and principles and to introduce them to important economic institutions. Students will learn to apply economic reasoning to their lives as citizens, consumers, workers and producers.

## Advanced Placement Economics, Micro Online <br> Grade level 11-12. One semester. <br> Prerequisite: None <br> Taking both Macro and Micro Economics meets both the economics and social studies elective requirement.

H3083OL

This is a college-level online course divided into two sections; it is designed to prepare students for the Advanced Placement test.

Microeconomics provides students with a thorough understanding of the principles of economics that apply to the functions of individual decision makers, consumers and producers. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government.

## Advanced Placement Economics,

Macro Online. . . . . . . . . . . . . . . . . . . . . . . . . . . H30840L
Grade level 11-12. One semester.

## Prerequisite: None

Taking both Macro and Micro Economics meets both the economics and social studies elective requirement.

This is a college-level online course divided into two sections; it is designed to prepare students for the Advanced Placement test.

Macroeconomics provides students with a thorough understanding of the principles of economics that apply to an economic system as a whole. It places emphasis on the study of national income and price determination and also develops familiarity with economic performance measures, economic growth and international economics.

## Alaska Studies Online <br> H31100L <br> Grade level 9-12. Required. One semester. <br> Prerequisite: None.

Alaska Studies is an online in-depth exploration of the rich geographic and cultural background of the state and its people from the early native peoples to the Russian era through statehood to the present. This course includes examination of the geography, history and the political and economic forces that have shaped contemporary Alaska. Content is organized around
five themes: population, land, resource, governance and cultural landscape. The course seeks to ensure that students have a strong foundation in the historic and cultural contexts of issues facing the state so they will develop a broad sense of community and strengthen skills that will encourage thoughtful consideration of issues and choices facing Alaska.

## SOCIAL STUDIES ELECTIVES

## Advertising and Sales <br> H82110L

Grade level 9-12. One semester.

## Prerequisite: None.

What comes to mind when you think of 'marketing'? Perhaps a familiar television jingle plays in your head? Or maybe you think of those irritating sales phone calls? There's no denying the sheer magnitude and power of the marketing industry. Every year companies spend approximately $\$ 200$ billion promoting their products and services-and that's just in the United States alone! You may be familiar with being on the receiving end marketing, but what's it like on the other side? In Advertising and Sales Promotions, you'll see how these marketing campaigns, ads, and commercials are brought to life and meet some of the creative folks who produce them. You'll learn about different marketing career opportunities and discover ways to be part of this exciting, fast-paced industry.

## Anthropology

H30200L
Grade level 11-12. One semester.
Prerequisite: None.
This is a study of humankind around the world and throughout time to seek understanding of human diversity. Students in this course will explore how the environment, culture, history and technology affect human development. Learn how old bones and artifacts can unlock the mystery of humankind. Sample topics include fieldwork and its methodology, early civilizations and societies, famous anthropologists and their discoveries, cultures past and present and how they compare.

## Careers in Criminal Justice <br> H82190L <br> Grade level 9-12. One semester. <br> Prerequisite: None.

Most of us have watched a sensationalized crime show at one time or another, but do we really know how things work behind those dreaded prison bars? Do we really understand all the many factors in our justice proceedings? The criminal justice system is a very complex field that requires many seriously dedicated people who are willing to pursue equal justice for all. The Careers in Criminal Justice course illuminates what those different career choices are and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order. Find out more about what really happens when the television show ends and reality begins.

## Contemporary Problems Online

H3655OL
Grade level 11-12. One semester.
Prerequisite: None.
This course will focus on the social, political, cultural and geographic forces that have created contemporary world "hot spots."

Students will discuss the evolution of these issues on the world stage and the implications of their resolution or non-resolution.

## Cosmetology: Cutting Edge Styles <br> H82130L <br> Grade level 9-12. One semester. <br> Prerequisite: None.

We all want to look our best, but did you know there is actually a science behind cutting your hair and painting your nails? In Cosmetology: Cutting-Edge Styles, you will learn all about this often entertaining field and how specialized equipment and technology are propelling our grooming into the next century. Just like all careers, cosmetology requires certain skills and characteristics, all of which are thoroughly explored in this course. You will learn about various beauty regimes related to hair, nails, skin, and spa treatments, and discover how to create your own business model quickly and efficiently while still looking fabulous, of course.

## Criminology Online

H36150L

## Grade level 11-12. One semester.

## Prerequisite: None.

Criminology is a study in the nature and causes of crime, its control and related punishment issues. Students will explore online why people become criminals, how we control criminals and how crime affects young people. Sample questions include: What are common crimes? How do juvenile crime patterns compare with adult? What are the different types of crimes? How do we police? What is organized crime? How does a citizen become part of the solution? How are property crime patterns different from violent crime patterns?

## Early Childhood Education <br> H82150L Grade level 9-12. One semester. Prerequisite: None.

As children, we see the world differently than we do as teenagers and adults. It is a world full of magical creatures and strange, exciting things. But what makes childhood such a wondrous time of learning and exploration? What can caregivers do to encourage this? In Early Childhood Education, you will learn more about understanding the childhood experience. Learn how to create interesting lessons and stimulating learning environments that provide a safe and encouraging experience for children. Discover how to get children excited about learning and, just as importantly, to feel confident about their abilities. Early childhood teachers have the unique opportunity to help build a strong base for their young students' life-long education.

## Introduction to Agriscience <br> Grade level 9-12. One semester.

H8977OL

## Prerequisite: None.

How can we make our food more nutritious? Can plants really communicate with each other? These are just two of the questions tackled in Introduction to Agriscience. From studying the secrets in corn roots to examining how to increase our food supply, this course examines how agriscientists are at the forefront of improving agriculture, food production, and the conservation of natural resources. In Introduction to Agriscience, you'll learn about the innovative ways that science and technology are put to beneficial use in the field of agriculture. You'll also learn more about some
of the controversies that surround agricultural practices as nations strive to provide their people with a more abundant and healthy food supply.

## Introduction to Culinary Arts

H8103OL
Grade level 9-12. One semester. Prerequisite: None.

Food, glorious food! It both nourishes and satisfies us, and it brings people together through preparation, enjoyment, and celebration. If you've ever wanted to learn more about cuisine and how your creativity and appreciation can be expressed by preparing food, Introduction to Culinary Arts is perfect for you. Learn the fundamentals of a working kitchen, and explore what it takes to develop real talent as a chef. Enhance your knowledge of the endless varieties of food, and discover the possibilities that the many spices can bring. Learning more about food preparation will certainly make everything you prepare taste better while giving you the ability to bring people together through the joy of eating.

## Introduction to Forestry

and Natural Resources.
H87130L
Grade level 9-12. One semester.
Prerequisite: None.
Whether you are a treehugger or not, everyone loves the beauty and serenity of a healthy forest. Our precious woodland species not only supply us with aesthetic beauty but also play a valuable role in nature. Trees uphold a great deal of our wildlife's ecosystem while providing us humans with needed lumber, paper products, and even food. But these forests cannot protect themselves and depend greatly on humans for conservation. In Introduction to Forestry and Natural Resources, you will learn more about this meaningful relationship and how environmental policy, land use, water resources, and wildlife management all factor into current forestry issues. After better understanding these variables and how they affect the majesty of our forests, you may just be hugging these gentle giants after all.

## Introduction Social Media <br> H88590L <br> Grade level 9-12. One semester. <br> Prerequisite: None.

Have a Facebook account? What about Twitter? Whether you've already dipped your toes in the waters of social media or are still standing on the shore wondering what to make of it all, learning how to interact on social media platforms is crucial to surviving and thriving in this age of digital communication. In Introduction to Social Media, you'll learn the ins and outs of such social media platforms as Facebook, Twitter, Pinterest, Google+, and more and how to use them for your benefit-personally, academically, and, eventually, professionally. If you thought social media platforms were just a place to keep track of friends and share personal photos, this course will show you how to use these resources in much more powerful ways.

[^15]Law Studies is the place to discover how the legal system
works. This online course aids students in applying legal principles and procedures. Sample questions that will be examined include: What rights do individuals have? What are the major types of law? Why do we have an adversarial system? How well will students do in court? How do we make justice happen?

## Psychology 1 Online H3685OL <br> Grade level 11-12. One semester. <br> Prerequisite: None.

This is an online course. Psychology is the scientific study of human behavior from early childhood through old age. Students will explore how an organism's physical state, mental state and external environment affect behavior and the mental processes. Sample topics include: how people learn, think, feel and behave, how developmental stages are important in the human life cycle, how self-concept is developed through relationships with parents, peers and culture, and how brain functions are affected by environmental conditions.

## Advanced Placement

Psychology Online . . . . . . . . . . H3687OLS1/ H3687OLS2

## Grade level 11-12. One semester each.

## Prerequisite: None.

This year-long online course is designed to introduce the highly motivated student to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are introduced to the psychological facts, principles and phenomenon associated with each of the major sub-fields within psychology. They also learn about the methods psychologists use in their science and practice. Topics include: the history of psychology, contemporary approaches to behavior, how to understand one's own behavior, strategies for dealing with life experiences and how to apply psychological principles to society.

## Sociology Online

H3045OL

## Grade level 11-12. One semester.

## Prerequisite: None.

Sociology is the study of how human behavior is shaped by the groups to which we belong. In this online course students will examine patterns of social life, make predictions about behavior and investigate other cultures. Sample questions in Sociology include: What roles do families play? What role does money play in creating groups in society? How do schools and other social institutions shape human behavior? Why do people join gangs?

## Theater, Cinema, and\& Film Production. . . . . . H88580L Grade level 9-12. One semester. Prerequisite: None.

Lights! Camera! Action! Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. In Theater, Cinema, and Film Production, you'll learn the basics of lighting, sound, wardrobe, and camera work while examining the magic that happens behind all the drama. Delve into the glamorous history of film and theater,and examine the tremendous influence these industries have had on society and culture over the years. During this unit, you'll discuss and analyze three classic American films-Casablanca, Singin' in the Rain, and The

Wizard of Oz -to help you learn how to critique and appreciate some of the most famous dramas of all time.

## WORLD LANGUAGES

## French I (novice low) Online . . . . .H4421OLS1/H4421OLS2 <br> Grade level 9-12. . One semester each. <br> Prerequisite: None

Students learn to exchange information in simple terms about topics relating to themselves, their family and their leisure activities in French. They will be introduced to the culture of Frenchspeaking countries and regions. The emphasis is on vocabulary development and elementary grammatical structures. The main goal of this course is to progress toward a novice-level ability in using French in school and the community.

## French II (novice mid)

Online

## .H4431OLS1/H4431OLS2

## Grade level 9-12. One semester each.

## Prerequisite: French I

Building on what was learned in Level I, students expand their ability to speak, read, write and listen in French. The emphasis is on continued vocabulary development and the acquisition of additional simple grammatical structure. There will be many opportunities to converse and write stories in French about familiar topics. Students begin applying their French language skills to communicate in basic real-life situations. They also continue to learn about the culture of French-speaking people. The goal of this course is for students to function at a mid-novice to high-novice level of proficiency.

## French III (novice high to intermediate low) <br> Online <br> .H4441OLS1/H4441OLS2

Grade level 9-12. One semester each.

## Prerequisite: French II

Students exchange information and begin to share opinions about themselves, their school and community in this online class. They expand their vocabulary and learn increasingly complex grammatical structures needed for more sophisticated communication. Students use technology and media to gather cultural information and learn about current events. This course is tailored to the low intermediate level of proficiency in French.

## Advanced Placement French Language (pre-advanced) <br> Online . . . . . . . . . . . . . . . . . . . H44710LS1/H4471OLS2 <br> Grade level 11-12. Two semesters.

## Prerequisite: French IV, V, or teacher recommendation.

The goal of this online course is to prepare each student to take the annual AP French Language exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## German I Online (novice low) . . . .H4221OLS1/H4221OLS2 Grade level 9-12. Two semesters. <br> Prerequisite: None.

This online course is an introduction to the German language
and culture. The emphasis is on listening with understanding, speaking with clarity, reading and writing. Instruction begins with situation dialogues. Deductive analysis is used to lead to grammatical principles, but the emphasis is on vocabulary development. Students in their course learn to exchange information in simple terms about every day experiences. Students identify the countries where German is spoken, as well as current events in those countries.

## German II (novice low to novice high)

Online
.H4231OLS1/H4231OLS2
Grade level 9-12. Two semesters.
Prerequisite: German I.
This online course emphasizes further vocabulary development and includes increased writing practice. Additional points of grammar are introduced. Students give oral reports and refine their discussions of their daily lives. Students continue to learn about the culture of the German people, which may include famous figures from history as well as aspects of modern life in Germany, which could include sports or entertainment personalities and popular pastimes. Current events in the German speaking world are discussed.

## Latin I Online <br> . .H4821OLS1/H48210LS2 <br> Grade level 9-12. Two semesters. <br> Prerequisite: None.

This online course is designed to introduce the beginning student to the Latin language and Roman culture. The course focuses on the development of reading comprehension. Vocabulary and grammar are studied in the context of reading passages into which cultural information has been integrated. Students learn to pronounce Latin according to accepted convention and simple oral Latin is used to aid students in comprehension. Students will gain some understanding of the effect of Roman civilization on the western world. Word derivations and Latin word elements are also studied to expand the student's vocabulary.

## Latin II Online

## .H4831OLS1/H48310LS2

Grade level 9-12. Two semesters.
Prerequisite: Latin I.
The emphasis of Online Latin II is to continue the development of reading and comprehension skills and the acquisition of a deeper understanding of the similarities and differences between the Roman world and our own. New vocabulary and more grammatical structures are learned as the reading progresses to longer and more complicated passages. Oral Latin is used to help students understand reading selections. The study of Latin word elements continues

## Mandarin Chinese I Online

(novice low to novice mid) . . . . .H4321OLS1/H4321OLS2 Grade level 9-12. Two semesters.

## Prerequisite: None.

The emphasis of this online course is on the ability to communicate orally, emphasizing vocabulary development and basic language functions. Students will use the language to exchange information about topics relating to themselves, their families and leisure activities. Students will learn basic radicals and stroke order in writing and be introduced to Chinese culture.

## Mandarin Chinese II Online

 (novice high). .H4323OLS1/H4323OLS2
## Grade level 9-12. Two semesters.

Prerequisite: Mandarin Chinese I.
This online course builds on the study of basic vocabulary and grammatical structures from Chinese I. Students will transfer from dependence on the romanized system, pinyin, to reading and writing the Chinese characters. Students will initiate and sustain short conversations on simple topics in everyday situations, recognize future and past references and speak the language with increased confidence and clearer articulation. Chinese customs, beliefs and aspects of contemporary and traditional culture are also integrated throughout this course.

## Spanish I (novice low) Online ... H40210LS1/H4021OLS2 Grade level 9-12. One semester each. Prerequisite: None.

This is an online course. Students begin to learn to communicate orally and in written form. They learn to understand and produce simple expressions and are introduced to the cultures of Spanish speaking countries. The emphasis is placed on vocabulary development and simple grammar. Throughout the course students apply language skills to real-life communication. Students in this course learn to exchange information in simple terms. The main goal for this course is for students to progress towards a novice level ability in using Spanish in school and the community.

## Spanish II (novice mid) Online . . H4031OLS1/H4031OLS2 Grade level 9-12. One semester each. <br> Prerequisite: Spanish I.

Students continue to expand upon oral and written communications through vocabulary building and grammar advancement. Students in this online course learn to understand and produce simple language related to familiar topics. Students also continue to learn about the culture of the Spanish-speaking peoples. The goal of this course is for students to function at a novice-mid to novice-high level of proficiency, depending on their background, and to begin to show signs of intermediate-low level of proficiency.

## Spanish III (novice high to intermediate low) Online . . . . . . . . . . . . . . . . . . . H40410LS1/H4041OLS2 Grade level 9-12. One semester each. <br> Prerequisite: Spanish II.

Students continue their development of communication skills. Increased emphasis is placed on responding to written and verbal input, as well as continued study of Spanish-speaking cultures. In this online course students learn more complex grammar and continue to expand upon vocabulary acquisition in order to satisfy some survival needs and courtesy requirements. The main goal of this course is for students to progress towards an intermediate low level of proficiency.

## Advanced Placement Spanish Language

Online . . . . . . . . . . . . . . . . . .H40710LS1/H40710LS2
Grade level 11-12. . One semester each.
Prerequisite: Spanish AP, V, VI, native speaker or teacher recommendation

The goal of this online course is to prepare each student to
take the annual AP Spanish Language Exam. Designed to provide students with an opportunity to develop their proficiency skills in comprehension, reading, writing and speaking at a much higher level, students will be challenged with written essays, impromptu and planned oral presentations, readings of a variety of texts and listening and viewing comprehension of oral texts.

## GENERAL ELECTIVES

## Health Opportunities Through PE Online. . . . . H6110OL <br> Grade level 9-12. One semester. Not repeatable Prerequisite: None

This online course will challenge students to become educated consumers, learn to manage stress, choose nutritious foods, make healthy lifestyle choices, be an effective member of a team and influence others in their community in a positive way. Students will have the opportunity to experience the many benefits of regular physical activity, proper nutrition, and sound decision-making. Topics covered include wellness, mental health, media literacy/consumer health, fitness components, nutrition, disease prevention, drug awareness, sexuality education, CPR and decision-making skills.

## Individual Recreational Activities Online <br> H66660L

## Grade level 9-12. One semester.

## Prerequisite: None. Lifetime Activity Course.

This online course will offer students a variety of recreational activities in which they can participate on an individual basis and learn skills applicable for a lifetime. Activities may include, but are not limited to, in-line skating, cross-country skiing, snowshoeing, frisbee, power walking, ice skating, jogging, orienteering and biking. Safety equipment as well as equipment appropriate for each activity will be required and must be furnished by each student. Repeatable unlimited times.

Lifetime Personal Fitness Online
H63800L
Grade level 9-12. One semester. Not repeatable Prerequisite: None.

The purpose of this online course is to promote the development and maintenance of personal fitness. It is conceptually based and focuses on healthy living and lifestyle choices, with particular emphasis on the role of exercise and physical activity including nontraditional and noncompetitive activities. Course content includes fitness assessment, regular physical activity, and fitness concepts and lectures based on the value and benefits of exercise in daily living. In addition to setting and working toward personal fitness goals, students have opportunities to practice positive social skills as they gain an understanding of how a wellness lifestyle affects the quality of life.
Music Appreciation Online. .H5710 Grade level 9-12. One semester. Prerequisite: None.

This music course is open to all students and is a study of the lives, experiences and cultural pursuits of people through music. Comprehensive studies will be done on composers and musical works. Also included in the course will be many listening activities of music from its beginning to the present.
Work Experience Online
H9805OL
Grade level 10-12. One semester. Four semesters maximum.

## Prerequisite: None.

Work Experience Online is a course that supports students who are employed at a supervised, approved site. Students may earn $1 / 2$ credit for every 112.5 hours they are employed. 1.0 credit may be earned for 225 hours and 1.5 credits may be earned for 337.5 hours. Hours are documented with pay stubs. Additional paperwork and assignments are required.

## APPENDIX

1. ASD mathematics graduation requirements can be found on the ASD Graduation Requirements web page.
2. ASAA eligibility rules can found on the ASAA website.

Title IX
"No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational programs or activity receiving federal financial assistance".
-From the preamble to Title IX of the Education Amendment of 1972
The Board is committed to an environment of nondiscrimination on the basis of race, color, religion, sex, age, national origin, economic status, union affiliation, disability, and other human differences. No person shall be excluded from participation in, or denied the benefits of, any academic or extracurricular program or educational opportunity offered service offered by the District. The District will comply with the applicable statutes, regulations, and executive orders adopted by Federal, State, and Municipal agencies.

Title IX applies to all programs in a school (including academics, extracurricular, and athletics) that receives federal financial assistance. It protects all participants in the academic program from gender discrimination including parents, students and employees.

If a school becomes aware of equal opportunity violations or sexual harassment, the school will take appropriate actions to investigate the situation. For more information on the student grievance process speak with your principal and/or follow the Student Grievance Process in this handbook. For more information on Title IX or to report any civil rights violation or Title IX violation, contact the EEO Director, who serves as the Title IX Coordinator, at the ASD Education Center, 5530 E. Northern Lights Blvd, Anchorage, AK 99504-3135 (907) 742-4132.

Concerns may also be reported to any of the following external agencies: Alaska State Commission for Human Rights, Anchorage Equal Rights Commission, Department of Education and/or the Office of Civil Rights.

Updated 6/2010

## Mapping Out Your Four-Year Plan*

## With so many choices in high school, it is important to plan ahead! Take some time, review these suggestions, and then get busy on your plan!

- Credits are earned when you pass a course.
- Courses can build on each other. You much earn credit for some courses before you move on to others (i.e. check for prerequisites)
- Some courses count as full credit (1) and some as half (.5)
- Anchorage School District's graduation requirements are listed on the attached plan. Ask your school counselor for help if you are unsure which courses you need.
- Make room in your plan for electives which can include art, band, CTE or other courses.
- Use your college and career interests to help you with decisions. Take an interest inventory or research what high school courses will help you with a college path (including what optional programs are available to you such as King Tech High School, Alaska Middle College School, iSchool, etc.)
- You may be able to earn high school credit in middle school by taking courses like Algebra 1 or a World Language. Taking high school courses early can help you get a jump on learning and free up space in your high school schedule. But remember, your performance in those classes will show up on your high school transcript. Ask you school counselor if adding these courses to your high school transcript is right for you and how that can affect your overall G.P.A.
- Are you planning to take advanced courses? Advanced Placement (AP) and International Baccalaureate (IB) allow you to take college-level courses while in high school. Score well on the exams, and you can earn college credit!
- And finally, ASK for help! Your school counselor and teachers will be happy to answer your questions!

Total credits needed to graduate $=22.5$ (one semester $=.5$ credit) Required courses listed under each subject.

| Subject | 9th Grade | 10th Grade | 11th Grade | 12th Grade |
| :---: | :---: | :---: | :---: | :---: |
| Language Arts (4) | Semester 1 |  |  |  |
|  | Semester 2 |  |  |  |
| Mathematics (3) <br> Algebra (1) | Semester 1 |  |  |  |
|  | Semester 2 |  |  |  |
| Science (3) <br> [Physical (1); Life (1)] | Semester 1 |  |  |  |
|  | Semester 2 |  |  |  |
| Social Studies (4) <br> [AK Studies (.5), World History (1), US History (1), Econ (.5), US Gov't (.5)] | Semester 1 |  |  |  |
|  | Semester 2 |  |  |  |
| P.E./Health (1.5) |  |  |  |  |
| Electives (7) <br> [options vary by school] |  |  |  |  |
|  |  |  |  |  |
| World Language* <br> [NOT required for graduation] |  |  |  |  |

*The Alaska Performance Scholarship Social Studies \& Language Curriculum requires 2 credits of World Language for eligibility.
Alaska Performance Scholarship Curriculum Checklist
2 units World Language
3 units Math
3 units Science
4 units Language Arts
4 units Social Studies

Secondary Math
$\frac{\text { Anchorage School District }}{\text { Educating All Students for Success in Life }}$
cating All Students for Success in Life

| Math 7 |
| :---: |
| M1007TM |


| Math $8^{*}$ |
| :---: |
| M1010тM |


| Foundations for |
| :---: |
| Algebra* |
| H1021TM |


| Algebra Readiness |
| :---: |
| H1344SP |


*Intensive and Targeted courses are designed to transition students
to the next pathway along indicated arrows.
Updated S/22/2019



[^0]:    Carpentry 1 KTHS . H 8418
    Grade level 11-12. One semester
    Prerequisite: None
    Academic credit: .5 Math, 1.0 Elective

[^1]:    Film Audio \& Video Production OJT KTHS.
    .H8857
    Grade level 11-12. One semester
    Prerequisite: Grade " $C$ " or better in Film Audio and Video
    Production 2
    Academic credit: 1.5 Elective
    May be taken 2 times

[^2]:    Collision Repair \& Refinishing 2 KTHS.
    H8414
    Grade level 11-12. One semester.
    Prerequisite: Grade " $C$ " or better in Collision Repair \&
    Refinishing 1.
    Academic credit: 1.5 Elective.

[^3]:    IB Mathematics Standard Level.
    H1804
    Grade level 10-12. Two semesters.

    ## Prerequisite: Algebra II

    This course covers logarithmic and exponential functions, analytic geometry, introduction to limits and the derivative, sequences and series, circular and trigonometric functions, graphs, laws,

[^4]:    Bible As Literature
    H0395
    Grade level 11-12. One semester.

    ## Prerequisite: None.

[^5]:    Algebra II. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . H1377
    Grade level 9-12. Two semesters.
    Prerequisite: A grade of " C " or better in Algebra I and Geometry or consent of previous mathematics instructor and/or math department chairperson. The prerequisite for the second semester

[^6]:    Chemistry I
    H2421
    Grade level 10-12. Two semesters. Physical science.
    Prerequisite: Algebra I.
    A beginning course that will include a study of the following concepts: atomic structure, mole concept, chemical periodicity,

[^7]:    Physiology of Wellness
    H2302
    Grade level: 9-12. One semester. Life science.

[^8]:    International Relations .H3630
    Grade level 11-12. One semester.
    Prerequisite: None.

[^9]:    United Nations
    .H3461
    Grade level 11-12. One semester.

    ## Prerequisite: None.

    United Nations is the study of the physical and cultural geography of selected member states in the organization and their relationship to key issues being examined by the organization. Students will also examine the functions and roles of the United Nations in the contemporary world. Emphasis is placed upon the process and issues of policy making. Students may participate

[^10]:    American Sign Language III.
    . H4909
    Grade level 9-12. Two semesters
    Prerequisite: American Sign Language II or teacher approval.

[^11]:    Japanese IV (intermediate low to intermediate mid)
    H4743
    Grade level 9-12. Two semesters.
    Prerequisite: Japanese III.
    Students develop more sophisticated communication skills and refine their reading and writing skills. In writing and reading, the number of kanji is increased. Students write short compositions based on individual experiences or reading materials and making oral or written presentations on assigned topics. Cultural topics, such as a survey of Japanese history, are integrated throughout this course.

[^12]:    Spanish I (novice low) Online . . . .H4021OLS1/H4021OLS2 Grade level 9-12. One semester each.
    Prerequisite: None.

[^13]:    Work Experience 9-12 AC 2.
    H9805LS2
    Grade level 9-12. One semester.
    Prerequisite: IEP.
    This course is designated as a transitional skills class for students with an IEP and enrolled in a Life Skills 2 program. Students will participate in individual and group activities designed to develop and increase vocational skills at the high

[^14]:    Algebra II Online
    H13770LS1/ H1377OLS2
    Grade level 9-12. One semester each.
    Prerequisite: A grade of " $C$ " or better in Algebra I and Geometry or consent of previous mathematics instructor and/or math

[^15]:    Law Studies Online.
    H3625OL
    Grade level 11-12. One semester.
    Prerequisite: None.

