

ELEC CREDIT TYPE	COURSE NAME	ACCN	CR	Term(s)	CLASS TIMES	PRE-REQUISITES	COURSE DESCRIPTION
CTE	Animal Systems 1	TNU6126	1	S1	Online	Grades 9-12	Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times...we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.
CTE	Business Law	TBU3020	1	S2	Online	Grades 9-12	The criminal justice system offers a wide range of career opportunities. In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system.
CTE	Business Management & Technology Core	TBC3010	1	S1	Online	Grades 9-12	This course can give you a head start in learning about what you'll need to own and operate a successful business. Students will explore creating a business plan, financing a business, and pricing products and services.
CTE	Culinary Arts 1	TPU7216	1	S1	Online	Grades 9-12	This course will give you the basic fundamentals to start working in the kitchen and gaining experience as you explore and establish your talents for cooking and preparing food in a creative and safe way. You will learn safety measures as well as enhance your knowledge of various types of foods and spices. If you enjoy hands-on learning and want to deepen your knowledge about culinary arts, this is a great course to start.
CTE	Culinary 2: Baking/Pasty Arts	TPU 7316	1	S2	Online	Grades 9-12	This is a beginning level course designed to introduce students to the basic principles of baking. The course would expose the students to a wide range of baking and pastry arts material. Labs will cover yeast doughs, quick breads, cookies, pies, pastries and dessert sauces. Recommended Prerequisite: Completion of TPC7010 Public and Human Services Career Pathway Core, and TPU7216 Culinary 1.
CTE	Cyber Security	TIN5520	1	S2	Online	Grades 10-12.	Through this course, students will identify vulnerabilities and attack mechanisms to a network on various platforms and use intrusion detection systems and other methods to mitigate security risks. Emphasis will be placed on the application of skills in detection and the utilization of strategies to combat identified threats. *Required for all incoming grade 9 students.
CTE	Early Childhood Education	TPN7416	1	S2	Online	Grades 9-12	Students will learn how to create fun and educational environments for children, how to keep the environment safe for children, and how to encourage the health and well-being of infants, toddlers, and school-aged children.

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CTE	Engineering Technology 1	TIU5810	1	S1	Online	Grades 10-12	This course is designed to introduce students to various engineering processes, concepts and techniques through the use of hands-on, real world projects. Students will explore civil, mechanical and electrical engineering problems; and use design innovation and manufacturing processes. Technical reading/writing, math and science knowledge and skills will be integrated and applied throughout the course.
CTE	Environment Resource Management	TNU6123	1	S2	Online	Grades 10-12	This course is designed to provide a comprehensive contextual place-based program in environmental resource management as it relates to Natural Resources Pathway careers. It emphasizes control, maintenance, and best practices to sustain environmental and natural resource areas. The major concepts of geography, resource inventory and assessment, and sustainability and stewardship should be covered with the awareness of the various industries, social, and economic activities related to these areas. Examples include wind farms, geothermal energy, and coastal water activities. Recommended Prerequisite: Completion of TNC6010 Natural Resource Core.
CTE	Entrepreneurship	TBN3810	1	S2	Online	Grades 9-12	Entrepreneurship introduces students to the process of recognizing opportunities and planning for the establishment of a small business. Concepts introduced will be applied and practiced. Community mentors in related fields will assist students as they implement their chosen enterprises. Students will be able to explore the unique relationships between business and the culture and values found in Hawaii today. Students will design, develop, and implement a business plan.
CTE	Fashion Design	TAU2310	1	S1	Online	Grades 9-12 (Student will need access to a Sewing Machine)	In this course, you'll explore what it is like to work in the industry by exploring career possibilities and the background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects. In addition, you'll develop the essential communication skills that build success in any business. By the end of the course, you'll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field.
CTE	Health Services Career Pathway Core	THC4010	1	S1	Online	Grades 9-12	In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

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CTE	Information Technology 1A/B	TIU6101/ TIU6102	0.5/0.5	Q1/Q2	Online	Required 9th Grade Course. Grades 10-12.	This course is designed to provide students will basic knowledge and skills integral to informational technology careers. Cyber fundamentals of networking, coding and security, and their connection to technological systems are emphasized. Contexts for learning include the interrelationship between basic cyber fundamentals and the conditions necessary to monitor, maintain, analyze and defend systems. This course is a MBTA graduation Requirement
CTE	Travel Industry Management	TBN3210	1	S1	Online	Grades 9-12	This course will introduce students to the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Student will learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.
ELEC	Careers in Criminal Justice	MBTA300	1	S1	Online	Grades 9-12	This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, we become more informed and responsible citizens in our communities and of our nation.
ELEC	Cosmetology: Cutting-Edge Styles	MBTA303	1	S2	Online	Grades 9-12	Students will explore career options in the field of cosmetology. Research into some of the common techniques used in caring for hair, nails, and skin in salons, spas, and other cosmetology-related businesses will also be presented.
ELEC	Sports and Entertainment Marketing	MBTA301	1	S2	Online	Grades 9-12	In this course, you'll have the opportunity to explore basic marketing principles and delve deeper into the multi-billion dollar sports and entertainment marketing industry. You'll learn about how professional athletes, sports teams, and well known entertainers are marketed as commodities and how some of them become billionaires as a result. If you've ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, then this course will introduce you to the fundamentals of such a career.
ELEC	Community Service	XLH2001	60hrs= 0.5 120hrs =1.0	Y1	Independent Study with Course Instructor	Grades 9-12	Community service is an elective credit/no credit course that provides students with the opportunity to perform volunteer work on their own time. It allows students to develop responsibility, encourages humanitarian attitudes by helping others without compensation, and encourages cooperative working relationships with peers and adults in the community. This course is directly supervised by a school faculty member, and students must get site approval before the start of service. Students may only receive 1 elective credit of community service towards graduation requirements.

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ELEC	Computer Literacy	EXS1200	0.5	Q2	Online	Required for New Students entering grade 9 (does not include current 8th grade MBTA students moving to grade 9). 10-12.	This course is designed to introduce students to the fundamental 21st century computer literacy and digital citizenship skills. Students will learn and apply the basic digital technologies to help them attain General Learner Outcome 6 in their various content area courses.
ELEC	Creative Writing	LWH5235	0.5	Q2/Q4	Online	Grades 9-12	This course emphasizes use of the writing process to stimulate and develop students' creative expression. Students shape their ideas into a variety of forms and styles utilized in fiction, poetry, drama, and personal narrative. Students read literary selections in several genres for enjoyment and inspiration, and, most importantly, as a springboard for ideas and a source of models of good writing.
ELEC	Forensic Science 2	MBTA304	1	S2	Online	Grades 11-12/ Successful completion of SAH3003.	The best way to battle crime these days is with science. Dig deeper into the science of forensics and the basic scientific principles used in the lab, such as toxicology, material analysis, microscopy, and forensic anthropology. Find out how scientists use everything from insects to bones to help them solve crimes. And discover how advanced techniques and technology can lead to catching even the craftiest criminal.
ELEC	Journalistic Writing	LWH5270	0.5	Q3/Q4	Online	Grades 9-12	Students develop writing in the context of publishing a newspaper, magazine, or other periodical. They develop specialized skills of researching, interviewing, producing copy, and editing. They engage in other activities that are part of the publication of a periodical such as layout, marketing, and graphics. Students also explore issues of ethics and responsibility related to their role as journalists.
ELEC	Work-Based Learning	TGG1500	0.5/0.5	Y1	Online	Grades 11-12/ Counselor recommendation	Work-Based Learning courses provide students with work experience in an existing occupation or career that is related to the student's program of study.
ELEC/SCI	AP Environmental Science (Eschool)	SIH3903	1	Y1	Online/ Face to Face	Required: Face-to-face participation. Oahu students only. Successful completion of Environmental Science. Teacher Recommendation. Grades 11-12.	AP Environmental Science is designed to be the equivalent of a one-semester, introductory college course in environmental science, stressing scientific principles and analysis through inquiry and laboratory experiences. The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze both natural and human-induced environmental problems, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary: it embraces a wide variety of topics from different areas of study.

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ELEC/SCI	Botany	SLH5503	1	S1	Online	Grades 10-12/ Successful completion of Biology 1	In this course, students will learn more about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students will also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.
ELEC/SCI	Earth Systems Science	SEH2003	1	S2	Online	Grades 10-12	This is a laboratory course in the study of the physical environment on earth and in space, emphasizing the unifying concepts and principles from the earth sciences and other science disciplines. This course involves an in-depth study of geology, oceanography, atmospheric science, and astronomy. The focus of the course is to use science investigation and analysis of the relationships between science, technology, and society, to understand the study of theories of the origin of the universe; origins and evolution of the solar system; life cycles of a star; estimation of geologic time; plate tectonic movements; forces that shape the earth; heat and energy within the atmosphere, hydrosphere and earth layers; climate and weather patterns; and wind and ocean currents.
ELEC/SCI	Environmental Science A/B	SIH3603	0.5/0.5	TBA	Online	Successful completion of Biology 1. Grades 10-12.	In this course, students first study processes that are important to global weather and climate patterns, and how humans are impacting these processes. Next, students examine climate model projections on future climate change for the Pacific Ocean area and investigate the consequences projected climate change will have on Hawaii's temperature, rainfall, susceptibility to storms and hurricanes, groundwater resources, sea level, and economy. Finally, students evaluate alternate solutions and take appropriate actions to establishing an improved global environment.
ELEC/SCI	Introduction to Forensic Science	SAH3003	1	S1	Online	Grades 10-12, Successful completion on Chemistry	Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

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ELEC/SCI	Human Physiology	SLH7503	1	S2	Online	Grades 10-12. Successful completion of Biology 1.	Human Physiology is considered a second year biology laboratory course with an in-depth focus and study of the anatomy and functions of the human organism and its parts. Students are provided with extended opportunities to study issues, topics, and themes relevant to human physiology. Emphasis is on using scientific inquiry and analysis of the relationships between science, technology, and society to cover concepts of systems such as blood, circulation, respiration, nutrition, digestion, metabolism, muscular system, nervous system, and reproduction are studied in terms of interaction of the functions and their contribution to the maintenance of a proper condition of the body's internal environment. Students are to meet all relevant benchmarks in Biological Science (B.S.) Content Standards 1-5. Recommended Pre-requisite: Course in Biology.
ELEC/SCI	Marine Science	SEH2503	1	S2	Online	Grades 10-12	Marine Science offers students opportunities to expand their understanding of the physical and biological sciences through interactions and experience with the ocean and its inhabitants. Students will learn about processes that influence the hydrosphere, as well as the influence of the hydrosphere on the environment. This course emphasizes the use of laboratory and field investigation to collect data on structure, function, and interactions of the diverse marine organisms and ultimately explore issues involving human impact on the marine environment. Students are to meet all benchmarks in Biological Science (B.S.) Standards 1-5 and all relevant benchmarks in Earth Space Science (E.S.) Standards 1, 2, and 8.
ELEC/SS	Hawaiian Studies	CER2200	0.5	Q3,Q4	Online	Grades 9-12	This course offers a glimpse of the mo'olelo (story) of Hawai'i through the exploration of time, politics, economics, society, and the natural world, while addressing the contrasting effects on this environment's capacity to endure. Students will take active part in identifying issues of sustainability and will begin to conceptualize solutions.
FA	Chorus 1A/1B	FMC1100/ 1200	0.5/0.5	S1/S2	THIS IS A FACE TO FACE COURSE	Grades 9-12	Chorus 1 is designed for students to develop performance skills, knowledge, and understanding of vocal music. Musical arrangements from a variety of styles and periods are sung in unison and two-part harmony. Solo and ensemble singing are performed.
FA	Digital Animation 1A/1B	FVG1101/ FVG1102	0.5/0.5	S1/S2	Online	Neighbor island students only	Students learn how to animate 2-D cell drawn cartoons on commercial grade light tables. Students will also learn about the history and culture of animation. Students will learn to apply and effectively communicate the elements of visual arts. Students will also learn art and animation specific tools necessary to develop their own individual style of drawing.

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FA	Digital Animation 1A/1B	FVG1101/ FVG1102	0.5/0.5	S1/S2	THIS IS A FACE TO FACE COURSE OFFERED AT THE OAHU SITE Fridays 1-3pm		Students learn how to animate 2-D cell drawn cartoons on commercial grade light tables. Students will also learn about the history and culture of animation. Students will learn to apply and effectively communicate the elements of visual arts. Students will also learn art and animation specific tools necessary to develop their own individual style of drawing.
FA	Digital Animation 2A/2B	FVG2101/ FVG2102	0.5/0.5	S1/S2	THIS IS A FACE TO FACE COURSE OFFERED AT THE OAHU SITE Fridays 1-3pm	Successful completion of Animation 1A/1B	Students will learn about the process of animation including storyboarding, staging, comic reels and setting up gags. The course topics are built around storytelling, using themes, symbols, and metaphors in various cultures and time periods. Team based exhibition projects include creating a positive public service announcement.
FA	Digital Animation 3A/3B	FBG3101/ FVG3102	0.5/0.5	S1/S2	THIS IS A FACE TO FACE COURSE OFFERED AT THE OAHU SITE Fridays 1-3pm	Successful completion of Animation 2A/2B	Students will have the opportunity to learn about the 3D animation process through working on projects formatted for the film industry. Students will learn and utilize industry standard 3D applications and tools. Students will conceptualize and complete a public service announcement (PSA) in addition to a short film or animation to exhibit mastery in communicating through the visual arts. This course will help the student better understand job titles and inner workings of each department in the 3D animation industry as well as building a portfolio/demo reel to advance in the field of digital media and communication.
FA	Drawing/Painting 1	FVQ1000	1	S1	THIS IS A FACE TO FACE COURSE OFFERED AT THE OAHU SITE Wed/Fri or Tues/Thurs, 12:30PM - 2:00PM		This is an introduction to drawing and painting in the secondary school. Experiences include experimentation in dry media such as pencil, pastels, and conte crayon, and wet media such as ink watercolor, tempera, acrylics, and mixed media. Drawing and painting skills are refined to support personal interpretations and development of artistic style. Drawings and paintings of various cultures are introduced, aesthetically scanned, and further explored as investigative research.
FA	Drawing/Painting 2	FVQ2000	1	S2	THIS IS A FACE TO FACE COURSE OFFERED AT THE OAHU SITE Wed/Fri or Tues/Thurs, 12:30PM - 2:00PM	Successful completion of Drawing / Painting 1	This course is designed to expand on skills, attitudes, and knowledge gained from Drawing and Painting 1. Experiences may emphasize a particular medium and specialized subject matter. The examination and study of artworks of various periods and cultures is encouraged.

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FA	General Art 1A (HS)	FVB1100	0.5	Q3	Online	Grades 9-12	This course will introduce students to the visual arts, drawing, painting and printmaking techniques and provide students with opportunities to imaginatively create artwork . Students will apply elements and principles of design. Ideas and concepts will be explored through two-dimensional media using a fundamental knowledge of drawing, painting and printmaking techniques. Exposure to various art techniques should help foster an understanding of and appreciation for art.
FA	General Art 1B (HS)	FVB1200	0.5	Q4	Online	Successful completion of General Art 1A	This course is an extension to General Art 1A. Students will continue to learn about visual arts, drawing, painting and printmaking techniques. Students will have additional opportunities to imaginatively create artwork and apply elements and principles of design. Further exposure to various art techniques will help foster a deeper understanding of and appreciation for art.
FA	Photography 1	FVP1000	1	S1	Online	Grades 9-12	The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.
FA	Photography 2	FVP2000	1	S2	Online	Successful completion of Photography 1/Or counselor approval. Grades 10-12	This is an intermediate course covering advanced exposure techniques involving measured and controlled light and time, the use of filters, film development for specific requirements and basic color photography either through traditional photographic techniques or through digital media. Individual projects include experiences in print toning, action photos, architectural compositions, and photos for news coverage.

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Multi-Disci	Senior Project	XSP1010	1	Y1	Independent Study with Faculty Advisor	Placement by counselor or registrar	The Senior Project provides students with the opportunity to demonstrate advanced proficiency in the attainment of the General Learner Outcomes (GLOs). It demonstrates a “learning stretch” and is personally useful and relevant to the student. The Senior Project provides a venue for students to demonstrate proficiency in the following essential components of the Senior Project: Phase One (Preliminary Planning): Personal Transition Plan, letter of intent and corresponding documents, and Senior Project portfolio; Phase Two (Research and Action): Thesis research paper, and culminating activity which can be any one of the following three options: 1) Career Focus: Job shadowing/mentorship; 2) Service Learning; OR 3) Student Personal Interest—Product and Action; and Phase Three (Formal Presentation and Evaluation): Preparing and presenting a formal 10-15 minute presentation before a Project Panel followed by a question and answer session. The presentation can be done orally, in a creative presentation or in a non-traditional mode. The Project Panel makes a recommendation based on a review of the student’s project content, delivery, questions and answers, and student portfolio (including the final paper, evidence of project completion, and learning log). The teacher mentor awards the credit.
Multi-Disci	Test Preparation -- College Entrance Exams (ACT)	XAG1030	0.5	Q2	THIS COURSE WILL BE OFFERED PRIMARILY ONLINE, WITH THE POSSIBILITY OF SEVERAL FACE TO FACE MEETINGS OVER THE 10 WEEK QUARTER.	Required for Grade 11	This course is designed to help juniors and seniors prepare for the most commonly administered college entrance examination, the SAT (formerly known as the Scholastic Assessment Test), or the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT). The course will help students to understand and improve their scores on the test by first examining the role, structure, and content of the SAT. The course also will cover vocabulary development, reading techniques, and test-taking strategies for critical reading, sentence completion, and analogies. If time and student interest permit, the course may also cover testing skills in mathematics, including quantitative comparisons, problem solving, arithmetic, algebra, and geometry. Students will complete timed practice tests as appropriate.

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Multi-Disci	Test Preparation -- College Entrance Exams (SAT)	XAG1030	0.5	Q1	THIS COURSE WILL BE OFFERED PRIMARILY ONLINE, WITH THE POSSIBILITY OF SEVERAL FACE TO FACE MEETINGS OVER THE 10 WEEK QUARTER.	Grades 11-12	This course is designed to help juniors and seniors prepare for the most commonly administered college entrance examination, the SAT (formerly known as the Scholastic Assessment Test), or the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT). The course will help students to understand and improve their scores on the test by first examining the role, structure, and content of the SAT. The course also will cover vocabulary development, reading techniques, and test-taking strategies for critical reading, sentence completion, and analogies. If time and student interest permit, the course may also cover testing skills in mathematics, including quantitative comparisons, problem solving, arithmetic, algebra, and geometry. Students will complete timed practice tests as appropriate.
WL	Japanese 1A/1B	WAJ1010/WA J1020	0.5/0.5	S1/S2	Online	Grades 9-12	This course is designed for the beginning language learner or those who have had limited exposure to language in elementary and middle/intermediate schools. Students begin the study of the target language and its culture by developing a basic repertoire of learned material needed to comprehend and respond in simple social situations of a daily and recurring nature using learned material. Emphasis is placed upon the development of basic listening, speaking, reading, and writing skills. In Japanese 1B students apply skills developed in 1A to engage in daily life situations using simple oral exchanges. Reading and writing skills are developed to support a limited range of written exchanges in familiar situation using the writing system of the language studied. Grammar is integrated throughout the two-course sequence and is selected according to language needs.
WL	Japanese 2A/2B	WAJ2010/WA J2020	0.5/0.5	S1/S2	Online	Successful completion of Japanese 1A/1B or placement by counselor or registrar	The first semester serves as a transitional stage in which students reinforce and draw upon earlier study and continue the development of their proficiencies so that they can engage in simple conversations and handle routine situations. In reading and writing, emphasis is on developing a greater range of topics and situations in which students can produce learned material through exclusive use of the writing system of the language. In Japanese 2B students expand their skills and begin to show some variety in language use by combining familiar and new material. Simplified illustrated materials help students to develop their reading skills. Students begin to write and understand selections that use related sentences to narrate, describe, and compare familiar topics, events, and ideas. Carefully selected listening selections and cultural topics help students to recognize aspects of daily life in other cultures and develop insight into other cultural perspectives. Grammar is integrated throughout the two-course sequence and is selected according to language needs.

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WL	Spanish 1A/1B	WES1010/WE S1020	0.5/0.5	S1/S2	Online	Grades 9-12	This course is designed for the beginning language learner. Students begin the study of Spanish language and culture by developing basic vocabulary and sentence structure in order to comprehend and respond in simple social situations. Emphasis is on the development of basic listening, speaking, reading, and writing skills. Students engage in daily life situations using simple oral and written exchanges. Students explore French culture and compare it to their own. Grammar is integrated throughout the course and is selected according to language needs.
WL	Spanish 2A/2B	WEQ2010/WE Q2020	0.5/0.5	S1/S2	Online	Successful completion of Spanish 1A/1B or placement by counselor or registrar	Students continue the development of their listening, speaking, reading, and writing proficiencies in the Spanish language while engaging in simple conversations and routine situations. Simple reading and listening selections on cultural topics help students develop insight into Spanish customs and way of life. Students expand their skills by combining familiar and new material. Emphasis is on moving toward more open-ended activities where students use related sentences to narrate, describe, and compare familiar topics, events, and ideas in both oral conversation and in writing. Grammar is integrated throughout the course and is selected according to language needs
WL	Spanish 3A/3B	WEQ3010/WE Q3020	0.5/0.5	S1/S2	Online	Successful completion of Spanish 2A/2B or placement by counselor or registrar	Students are provided additional opportunities to develop proficiency in Spanish by expanding their listening, speaking, reading, and writing proficiencies. Students are expected to create with language and be able access short literary texts, authentic materials, and media. In conversation, students are required to initiate and maintain face-to-face interactions, and in oral and written presentations, they are expected to identify main ideas and significant details. A deeper understanding of Spanish culture and culturally appropriate behaviors is a goal. Grammar is integrated throughout the course and is selected according to the language needs.
INSTITUTES:							

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CTE	ARTS/COMM PATH CAP	TAK2990	1	Y1	Hybrid	Grade 12	<p>A Capstone Project reflects the culmination of knowledge, skills, and attitudes by students in the Arts and Communications Technology Career Pathway. This course provides a venue for students to plan and execute individualized study on a topic of particular interest to them. Participants will have their independent study and research periodically assessed by the instructor. Students are to enlist the guidance of an adult mentor from the school or community. The following products are required from the student participating in a Capstone Project: 1) a research paper to demonstrate information and knowledge acquisition skills, 2) a formal oral report before a panel of industry experts, and 3) a portfolio that relates the "learning journey" and verifies the learning process. The topics of interest will be student-driven and the choice of media for presentation will be at the discretion of the student presenter. Recommended Prerequisite: Completion of TAC2010 Arts and Communication Career Pathway Core and any Arts and Communication Career Pathway cluster course.</p>
CTE	STEM CAPSTONE	XAT1000	1	Y1	Hybrid	Grade 12	<p>This elective course is self-directed and project based. Students are expected to demonstrate skilled or masterful levels for all STEM Competencies as they address the following major outcomes for the course: * Research: Conduct research to reflect upon and determine a project to addresses a specific community need. * Design: Design, build, test, refine, and deliver a solution to address the need. *Reflection: Engage in ongoing reflection throughout all levels of the project design and its impacts on the local and global community. *Technology: Learn to use technologies with the aid of online self-guided tutorials, student mentoring, and/or professional assistance arranged by the course facilitator. Accessible technology may include, but is not limited to; probe-ware, biotechnology, bio-agricultural systems, computer-aided design, 3-D modeling, architectural design, animation, games design, surveying and mapping (GPS), Geographic Information Systems, programming, database applications, web page design, digital photo and video editing. * Career Skills; Acquire career-building skills. Skills include reflection on and integration of personal values with career interests, strategic resume development, and enhancing job search capability. Project-based learning experiences will specifically address skills with STEM fields. Successful projects will integrate the practice and development of specific skills from all four areas -- Science, Technology, Engineering Design, and Mathematics. STEM Capstone projects will address all four areas of STEM and will directly reflect meet or exceed levels of all STEM Competencies.</p>