

2023-24 Kodiak High School Course Description Catalog

Career Technology and Electives

Advanced Game Development

Grade Level(s): 11-12; Yearlong course. Prerequisite(s): Intro to Programming, and Game Design. Certification is available.

This advanced game development course is designed for students who have already completed an Introduction to Game Development course or have equivalent knowledge. The course will cover more advanced topics in game development such as AI, Multiplayer, and Virtual Reality. Students will learn to create games that include advanced mechanics such as physics-based simulations, advanced AI, and virtual interactions. Content of this course aligns with the Unity Certification Exam.

Industry Certification: Unity Certification

Advanced Web Design

Grade Level(s): 11-12; Yearlong course. Prerequisite(s): Intro to Programming, and Web Design. Certification is available.

Explore the Agile methodology of software development and how it plays into leadership and teamwork amongst developers. Learn to speak the language of JavaScript to enhance your web development efforts. Your efforts will commence in a professional portfolio that showcases modern web development topics. Course is available as dual credit and can lead you towards completion of the UAA Occupational Endorsement in Web Engineering.

Note: This course is aligned to TECH A120 Commercial Web Page Development, a course within the [Occupational Endorsement Certificate in Web Engineering](#) offered through Prince William Sound Community College.

Audio/Video Production *Grade Level: 10 -12; Yearlong course. Prerequisite(s): Visual & Graphic Design. Certification is available.*

This course introduces students to video editing with Adobe Premier Pro. Students will create still and motion video, editing at a professional level. Students will write scripts, create storyboards, and program a/v clips for business, entertainment, and educational purposes. Industry certification: Students will take their [Adobe Premier Pro](#) exam.

Automotive 1 Grade *Level(s): 10-12; Year-long course Prerequisite(s): Engines and Motors. Certification available.*

This course begins with classroom and shop instruction on the tasks set forth in the National Automotive Technician Educational Foundation (NATEF) General Service Technician (GST) industry curriculum. The gas/diesel curriculum includes safety rules and procedures, tool usage and safety, automotive measurement, basic electricity, wheels and tires, brake systems, steering systems, suspension systems, basic troubleshooting, and employability skills. Visit: www.natef.org for more information.

Industry certification: ASE Note: The KIBSD Automotive program is aligned to the following courses within the [Automotive Specialist](#) and [Automotive Engine Performance](#) Occupational Endorsement Certificates at University of Alaska, Anchorage: Automotive Technology (ADT A102), Basic Electrical Systems (ADT A121), Engine Theory & Diagnosis (ADT A122), and Brake Systems (ADT A150).

Automotive 2 *Grade Level(s): 11-12; Year-long course. Prerequisite(s): Engines and Motors, and Automotive 1. Teacher recommendation required. Certification available.*

This course continues classroom and shop instruction set forth in the National Automotive Technician Education Foundation (NATEF) General Service Technician (GST) industry curriculum. Participation in the Skills- USA state and national competitions may be available for select students who qualify. Class content includes safety, diagnostic equipment, advanced electrical systems diagnostics, advanced engine performance, and advanced drivetrain diagnostic principles. Students will have the opportunity to test for ASE (Automotive Service Excellence) certification in the disciplines that they choose. Visit: www.natef.org for more information.

Industry certification: ASE

Note: The KIBSD Automotive program is aligned to the following courses within the [Automotive Specialist](#) and [Automotive Engine Performance](#) Occupational Endorsement Certificates at University of Alaska, Anchorage: Automotive Technology (ADT A102), Basic Electrical Systems (ADT A121), Engine Theory & Diagnosis (ADT A122), and Brake Systems (ADT A150).

Automotive 3 *Grade Level(s): 12; Year-long course. Prerequisite: Engines and Motors, and Automotive 2. Teacher recommendation required. Certification available.*

Automotive 3 continues classroom and shop instruction set forth in the National Automotive Technician Education Foundation (NATEF) General Service Technician (GST) certification. Participation in the Skills-USA competition at state and national levels may be available to select students who qualify. Class content includes safety, diagnostic equipment, advanced electrical systems diagnostics, advanced engine performance, and advanced drivetrain diagnostic principles. Students will have the opportunity to test for ASE (Automotive Service Excellence) certification in the disciplines that they choose. Visit: www.natef.org for more information. Work-based learning opportunities, (e.g., Internship, Apprenticeship) may be available based on Teacher recommendation and availability.

Industry certification: ASE

Note: The KIBSD Automotive program is aligned to the following courses within the [Automotive Specialist](#) and [Automotive Engine Performance](#) Occupational Endorsement Certificates at University of Alaska, Anchorage: Automotive Technology (ADT A102), Basic Electrical Systems (ADT A121), Engine Theory & Diagnosis (ADT A122), and Brake Systems (ADT A150).

Business Foundations *Grade Level(s): 9-12; Year-long course. Prerequisite(s): None.*

This course introduces students to key business principles. Students explore strategies that allow companies to compete in today's complex global marketplace. Students discuss the primary functions of business, including management, marketing, finance, accounting, and information systems. This course provides students with opportunities to develop essential business skills. Note: This course is aligned to Business Foundations (BA A151),

a 3-credit course at Kodiak College, and included in the [Occupational Endorsement Certificate in Entrepreneurship](#) offered through the University of Alaska, Anchorage.

Business Management 1 *Grade Level(s): 10-12; Year-long course. Prerequisite(s): Business Foundations.*

This course goes deeper into business basics, introducing the concepts and practical aspects of entrepreneurial management for starting and operating a small business. This course focuses on decision making, management, leadership, supervision of personnel, business law, ethical and social responsibility, marketing, financial controls, and other necessary processes to ensure the successful start-up and long-term health of a business enterprise.

Note: This course is aligned to Entrepreneurship and Small Business Management (BA A166), a 3-credit course at Kodiak College, and included in the [Occupational Endorsement Certificate in Entrepreneurship](#) offered through the University of Alaska, Anchorage.

Business Management 2 *Grade Level(s): 11-12; Year-long course. Prerequisite(s): Business Foundations, Business Management 1.*

This course introduces students to the requirements and strategies necessary for starting and developing new ventures and covers a broad range of topics including entrepreneurial thinking, opportunity recognition and assessment, funding and other resource requirements, growth issues, valuation, and managing the business. Students will create a marketing and a business plan for the student's own business idea(s).

Note: *This course is aligned to Entrepreneurship and Innovation (BA A286), a 3-credit course included in the [Occupational Endorsement Certificate in Entrepreneurship](#) offered through the University of Alaska, Anchorage. Prerequisite: BA A166 with a minimum grade of C is required.*

Certified Nursing Assistant (CNA) *Grade Level(s): 11-12. Semester course which may include a double block or after school hours to support attainment of hours required for certification. Prerequisite(s): Students must be 16 years or older. By application only. Applications are available in counseling office. Dual credit and state certification is available.*

This course provides instruction on utilizing a humanistic approach to provide basic care to people in a variety of health care settings. Students will understand how health care systems operate and will learn the skills necessary to function safely and efficiently in a health care setting. Classroom learning is then developed through practical skill building within community health care facilities. Students will learn the information and practical skills necessary for taking and passing the [certification exam](#) required by the state of Alaska. Students who complete this program can take the Certified Nursing Examination. Work-based learning opportunities, (e.g., CNA Internship, apprenticeship, job entry, etc.), may be available based on teacher recommendation and availability. Industry certification: [Certified Nursing Assistant Certification](#).

Note: This course is aligned with the [Certified Nursing Assistant](#), 7-credit program at Kodiak College. Dual credit is available.

Construction Trades I *Grade Level(s): 9-12. Yearlong course. Prerequisite(s): None. Certification is available.*

This course introduces foundational skills for skilled craft trades and covers materials and equipment handling, basic safety for hand and power tools, tool use, and relevant mathematics and technical communication skills used in the trades. Students earn an OSHA-10 card and demonstrate safety in the woodworking and construction environment, as well as safe use of common woodworking tools, methods, and wood finishing. Students will be exposed to reading technical materials, blueprints, and schematics. The basics of electrical wiring will be introduced. Projects include skill development in technical joinery of wood (band saw laminated coat racks, end grain cutting boards, lathe turned bowls and plates) and projects that incorporate electrical wiring into wood working projects.

Industry certification: Students will earn an [OSHA 10 card](#).

Construction Trades II *Grade Level(s): 10-12. Year-long course. Prerequisite(s): Construction 1. Certification is available.*

This course is the second course in Construction Trades and covers the beginning level of construction. Students will be introduced to Kodiak building codes for the construction of building and construction projects and have the opportunity to earn a Scaffolding Safety Certificate. Students will be introduced to and demonstrate basic skills in framing, roofing, window, door, and siding installation, weatherproofing, walls, insulation, and rough plumbing. Plenty of hands-on time with power tools, hand tools on construction projects.

Industry certification: Students will earn a [Scaffolding Safety Certificate](#). Note: This course is aligned to an [Occupational Endorsement Certificate in Constructional Skills](#) offered through Prince William Sound Community College.

Construction Trades III *Grade Level(s): 11-12. Year-long course. Prerequisite(s): Construction I and Construction I.*

This course is the third course in Construction Trades. Students will be introduced to and demonstrate basic skills in electrical wiring and building fixtures, floor coverings, kitchen and bathroom fixtures, trim carpentry and home energy basics and weatherization. Plenty of hands-on time with power tools, hand tools on construction projects. This course prepares students for Construction Trades 4, a course that includes project management, additional OSHA certifications, and possibilities for work-based learning and job placement.

Note: This course is aligned to an [Occupational Endorsement Certificate in Constructional Skills](#) offered through Prince William Sound Community College.

Construction Trades IV *Grade Level(s): 12. Year-long course. Prerequisite(s): Construction I, II and III.*

This course focuses on workforce readiness through special topics and work-based learning experiences. (e.g., Internship, apprenticeship), based on teacher recommendation and availability. Special topics include project management techniques related to construction business organization, such as project delivery methods, cost control, time management, quality control, labor, bidding and procurement, contracts, ethics, and risk management. Students will have opportunity to earn at least one OSHA certification: [OSHA 30-hour Construction Certification](#), [OSHA 30-hour General Construction Certification](#), and/or [OSHA 1926 Standards Training for Construction](#), a regulations course that includes protective equipment.

Note: This course is aligned to an [Occupational Endorsement Certificate in Constructional Skills](#) offered through Prince William Sound Community College. Work-based learning experience is aligned to a 4 credit, 180-hour college course, A295 Industrial technology Internship.

Cosmetology 1 *Grade Level(s): 9 -12. Year-long course. Prerequisite(s): None.*

Cosmetology 1 students will be able to demonstrate the following skills: shampooing and conditioning, thermal styling, hair manipulation, women's haircutting, communication with clientele, disinfection, blood borne pathogens, infection control, and exposure to employer expectations in the workplace. Future professionals will have a working knowledge of the structure of hair, nails, and skin. It is a general overview of these subjects. Some students will begin hair color, chemical processes, and hair structure knowledge.

Cosmetology 2 *Grade Level(s): 10 -12. Year-long course. Prerequisite(s): Cosmetology 1.*

Cosmetology 2 students will become more advanced in haircutting, as well as hair colors, and perms, skin care, skin abnormalities, facials, anatomy of the face, head, and nails, including nail disease, and the anatomy of hands, arms, and feet.

Cosmetology 3 *Grade Level(s): 11-12. Year-long course. Prerequisite: Cosmetology 1 and 2.*

Licensure is available based on additional hours towards state licensure.*

Cosmetology 3 students will be the most advanced and will dive into the structure of the hair, nails, skincare, sanitation, career options, customer service skills, and client and employer expectations. Students will move from mannequins to live clients and be introduced to salon management including state laws and regulation. Work-based learning opportunities, (e.g., Internship, apprenticeship, job entry, etc.), may be available based on teacher recommendation and availability. Industry State Licensure: [*Hairdresser Licensure](#)

Culinary Arts I *Grade Level(s): 9 -12. Year-long course. Prerequisite(s): None. Certification is available.*

It is an introductory course designed for high school students who have a passion for cooking and want to learn the basics of culinary arts. This course focuses on the fundamentals of food preparation, safety and sanitation, and nutrition. Students will learn how to use kitchen equipment, prepare, and cook a variety of dishes, knife skills, stocks, sauces, soups, vegetables and fruits, herbs and spices, meat, poultry, seafood, eggs, dairy, baking and pastry, and career opportunities in the culinary industry. Attendance and participation are crucial for success in this course. The course will be aligned with Alaska's state standards, and students will earn their Alaska food handler's card.

Industry certification: Alaska Food Handler's card. Note: This course is aligned to CA A101 Hospitality Industry: Careers, a 2-credit course, and CA A104 Sanitation, a 2-credit course through the University of Alaska, Anchorage. These courses are included in the [Culinary Arts Occupational Endorsement Certificate](#) offered through University of Alaska, Anchorage.

Culinary Arts II *Grade Level(s): 10 -12. Year-long course. Prerequisite(s): Culinary I. Certification is available.*

Culinary II is an intermediate course designed for high school students who have completed Culinary I. This course builds on the fundamental skills and techniques learned in culinary one and expands students' culinary knowledge and creativity. Students will learn advanced techniques and explore a variety of global cuisine. They will learn about the principles of flavor development and ingredient pairing, recipe development, kitchen management and leadership. The focus will be on developing critical thinking and problem-solving skills, applying creativity and critical thinking to recipes, as well as effective communication and teamwork. Attendance and participation are crucial for success in this course. The course will be aligned with Alaska's state standards, and students will earn

their industry certification in [ServSafe Handler](#).

Industry Certification: SERVSAFE Handler Note: This course is aligned to CA A 103 Culinary Skills Development Lab, a 4-credit course through the University of Alaska, Anchorage. This course is included in the [Culinary Arts Occupational Endorsement Certificate](#) offered through University of Alaska, Anchorage.

Culinary Arts III *Grade Level(s): 10 -12. Year-long course. Prerequisite(s): Culinary I and II. Certification is available.*

Culinary Arts III is an advanced course designed for high school students who have completed Culinary I and II. This course builds on the skills and techniques learned in the previous courses and provide students with the opportunity to refine their culinary skills and develop their own culinary style. They will learn about the science of cooking and the impact of different cooking methods have on food texture, and flavor. They will also develop their creativity and ability to develop their own unique recipes and menus. Students will explore the business side of the culinary industry and learn about entrepreneurship, marketing, and menu development. The course will be aligned with Alaska's state standards. Students will prepare for the ServSafe Manager Certification, which verifies that a manager or person-in-charge has sufficient food safety knowledge to protect the public from foodborne illness.

Culinary Arts IV *Grade Level: 12. Year-long course. Prerequisite: Culinary 1, 2 & 3. Teacher recommendation required. Industry certification in SAVESERV Manager is available.*

Students will prepare for the ServSafe Manager Certification, which verifies that a manager or person-in-charge has sufficient food safety knowledge to protect the public from foodborne illness. This semester will focus on the introductory business and supervisory skills needed in a culinary art business environment.

Digital Photo & Comm *Grade Level 10-12 Yearlong course. Prerequisite: Visual & Graphic Design*

This course introduces students to taking professional-looking photographs with one's digital camera. Using Photoshop students will edit and manipulate various graphics. Using Illustrator, students will create and edit vector-based work such as graphics, logos, and other design elements. Digital art of various forms and lighting will be explored to create digital media and communication.

Education I *Grade Level(s): 10-12. Year-long course. Prerequisite: Intro to Early Childhood Education is recommended. Dual credit is available.*

A general introduction to careers in PreK through 12th grade education in Alaska and the nation. Topics include motivations for becoming an educator, personal learning styles, values, beliefs, and ethics as they relate to teaching, human development and developmentally appropriate practices, educational careers and professional organizations, teacher certification requirements, diversity issues, historical perspectives, laws, and policies governing education at local, state, and federal levels, rural and urban schooling, school curricula, and effective teaching.

This course aligns to [ED S122 Introduction to Education](#), a 3-credit elective course in the Education Program at University of Alaska, SE.

Education II *Grade Level(s): 10-12. Year-long course. Prerequisite: Education 1.*

Educational Practices is a course for those who want to continue a career pathway in the field of education. It includes an extensive (approx.15-20-hour) cadet teacher practicum with active involvement in classroom to gain insight and develop instructional skills. This course focuses specifically on classroom culture, effective instruction and planning, student engagement and reflective practice, in addition to career-readiness skills and work habits. Prerequisite: Introduction to Education course (EDFN101 or EDS122)

Engines and Motors *Grade Level(s): 9-12; Year-long. Prerequisite(s): None. Certification is available.*

This course utilizes both classroom and shop instruction of a variety of engine types including automotive, motorcycle, airplane, boat, and motor sport vehicles. Instruction includes the operation, maintenance, and repair of engines and motors, as well as hydraulics, power generation and other systems. Students will gain a beginning knowledge of basic tools utilized in this field and have opportunity to earn an [EETC Small Engines certification](#). This course is aligned to Outboard Motor Maintenance and Diesel Engine Maintenance, courses within the [Marine Transportation Occupational Endorsement](#).

Industry certification: Small Engines. Note: Outboard Motor Maintenance (MTR S120) and Diesel Engine Maintenance (MTR S122) are 1 credit courses within the [Marine Transportation Occupational Endorsement](#) offered through University of Alaska, Southeast.

Fisheries I *Grade Level(s): 9-12; Year-long. Prerequisite(s): None.*

In this course you will have the opportunity to learn the basic skills needed to work in any of Kodiak's many commercial fisheries. These skills include splicing line, tying knots, web mending and onboard safety. The class will learn about the different gear and boat types used to harvest seafood in Kodiak waters. Additionally, there will be instruction on reading charts, weather forecasts and Kodiak geography/oceanography.

Fisheries II *Grade Level(s): 10-12; Year-long. Prerequisite(s): Fisheries I.*

This course is focused on improving skills learned in Fisheries 1 and spending time out of the classroom, aboard the school boat and working on larger gear construction projects. The class will learn about fisheries technology (radar, GPS, plotters, sonar, etc.) and navigation in the classroom and onboard the K-HI-C, where students will also learn about boat handling, systems, and maintenance. Instruction will be available to students interested in working toward qualifying to take a Coast Guard licensing exam. Students already employed in the fishing industry can still benefit from this course.

Game Design *Grade Level(s): 10-12; Yearlong course. Prerequisite(s): Intro to Programming.*

This course is an introduction to game development, where students will learn the basic concepts and techniques used in the game development industry. They will learn to create interactive and engaging games using industry-standard game engines and programming languages. The course will cover topics such as game mechanics, game engines, 2D and 3D graphics, game physics, animation, and scripting. Students will learn to create a variety of games such as 2D platformers, puzzle games, and simple 3D games.

Intro to Early Childhood Education *Grade Level(s): 9-12. Year-long course. Prerequisite: None. Certification: Course provides early access to a Child Development Associate Certificate*

This course looks at the historical, social, and philosophical foundations of the field of early childhood education and current career pathways. Students are introduced to the practices within the field of early childhood

education, including developmentally appropriate practices, observation and documentation, and culturally relevant practices, and will survey types of early childhood settings, ethics, and professionalism. Students will conduct a needs analysis of community resources and create individual student learning and work plans for attaining a CDA certificate. This course serves as a great introductory course for Education 1 but is not required.

Industry certification: Early access to a [Child Development Associate Certificate](#). Note: This course is also aligned to Intro to the Field of Early Childhood (EDEC A105), a 3-credit course included in the [Early Childhood Development](#), AAS degree offered at Kodiak College.

Intro to Programming *Grade Level(s): 9-12. Year-long course. Prerequisite: None.*

Intro to Programming in web & game design explores the role technology plays in our lives as well as study the fundamentals of computer science, develop computational thinking abilities, learn effective use of a computer, and have fun creating samples of Interactive Media. Students will discover a range of concepts to gain the foundational knowledge needed to start exploring various careers in Computer Science and find out which ones suit your interests and abilities.

Note: *This course is aligned to CS A109 Computer Programming, a course in the [Occupational Endorsement in Web Engineering](#) offered through Prince William Sound Community College.*

Math for the Trades *Grade Level(s): 11-12; Yearlong course. Prerequisite(s): Algebra I.*

This course will be delivered in a blended learning environment. Coursework is designed to equip students with a solid foundation in the math needed for a variety of technical and vocational trades, such as allied health, electrical trades, plumbing, construction, mechanics, welding, engineering, architecture and many more. The math concepts are presented within the context of practical on-the-job applications, with added focus on Algebra 1 and functions.

Note: *This course is required for a KIBSD/IBEW pre-apprenticeship. Seniors accepted into a KIBSD/IBEW program are required to take this course or 'test out' by passing a proctored exam provided by IBEW*

Medical Billing & Coding *Grade Level: 12; Yearlong course. Prerequisite(s): Human Anatomy & Physiology or Medical Terminology are highly recommended but not required. State certification in [Medical Billing & Coding](#) is available.*

This course will be delivered in a blended learning environment. Coursework will introduce students to coding, billing cycles, and how health information technology is used in medical offices. Students will learn basic accounting transaction terminology and how to enter patient charges, claims, and payments into office software. Students will learn Health information management, HIPAA, and the ethics and legalities related to the job field. Students will learn the information and practical skills necessary for taking and passing the certification exam required by the state. Work-based learning opportunities, (e.g., Internship, apprenticeship, job entry.), may be available based on teacher recommendation and availability. *Industry certification: [Medical Billing & Coding Certification](#).*

Medical Terminology *Grade Level(s): 10-12; Year-long course. Prerequisite(s): Biology is recommended. Students may opt for .5 CTE credit and .5 Science credit if taken for a full year.*

This course introduces the vocabulary, abbreviations, and symbols used in the language of medicine. Emphasis is placed on building medical terms using prefixes, suffixes, and word roots. Upon completion, students should be able to pronounce, spell, and define accepted medical terms. Instruction may be provided using blended learning which combines online learning with face-to-face instruction, hands-on activities, labs, and projects.

Navigating Adulthood *Grade Level(s): 9-12; Year-long course. Prerequisite(s): None.*

What do you want out of life? How do you achieve your dreams for the future? These can be difficult questions to answer, but with the right tools, they don't have to be. This course will encourage you to learn more about yourself and help you to prepare for the future. You will explore goal setting, decision making, and surviving college and career. You will also discover how to become a valuable contributing member of society. Now is the time to take action. It's your life, make it count!

Office Environment *Grade Level(s): 10-12; Year-long course. Prerequisite(s): None. Certification is available.*

This course covers the duties and responsibilities of general office employees including filing, processing mail, telephone communication, meeting the public, office supplies, banking, and employment procedures. Students will practice and demonstrate keyboarding skills, word processing, spreadsheet, and basic record keeping and filing management.

Industry certification: Students will earn certifications in basic [Microsoft Word, Excel, and Outlook](#). Note: This course is aligned to Office Procedures (ABUS F182), a 3-credit course in an [Occupational Endorsement Certificate in Administrative Assistant](#) offered through the University of Alaska, Fairbanks.

Visual & Graphic Design *Grade Level: 9 -12; Yearlong course. Prerequisite(s): None. Certification is available.*

This course introduces students to photo editing and raster graphic design with [Adobe Photoshop](#), which allows students to create, edit, and manipulate various graphics as well as digital art. When the program was developed it was for photographers, but over time the program has grown to do many kinds of work. In this course students will also be introduced to vector-based illustration using [Adobe Illustrator](#) which allows students to draw and manipulate basic objects, photos and type.

Industry certification: Students will take their [Adobe Photoshop](#) exam and may work their way towards attaining additional industry certification in [Adobe Illustrator](#). The Adobe Suite will be presented.

Web Design *Grade Level(s): 10-12; Yearlong course. Prerequisite(s): Intro to Programming. Certification is available.*

This beginner-level course will introduce students to the basics of web development. Students will learn how to create and design websites using HTML, CSS, and JavaScript. Through a series of hands-on projects and exercises, students will learn how to structure and style web pages, create interactive web elements, and implement responsive design.

Industry Certification: Adobe XD micro credential.

Welding I *Grade Level(s): 9-12; Year-long course Prerequisite(s): None. Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls. Certification opportunities and dual credit are available.*

This course introduces the basic principles of welding, welding of mild steels and thermal cutting. It includes welding safety, oxyacetylene welding (OAW), brazing, and silver soldering, electrode identification and selection, basic joint design, and welding practices on carbon steel plates. Students will learn the basic theory and practice of fusing ferrous metals using OAW, gas metal arc welding (GMAW), and shielded metal arc welding (SMAW) processes. SMAW process is emphasized. Students will gain experience with a selection of welded joint designs and a variety of electrodes. Standard industrial safety procedures are stressed.

Industry certification: OSHA 10. 3G and 4G SMAW certification available. Note: This course is aligned to WELD A101 Introduction to Welding, a 3-credit course within the [Occupational Endorsement Certificate in Welding](#) through University of Alaska Anchorage. Dual credit is available.

Welding II *Grade Level(s): 10-12; Year-long course Prerequisite(s): Welding I; Teacher recommendation required. Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls. Certification opportunities and dual credit is available.*

This course introduces the welding of high strength steels and includes welding safety, low alloy electrode selection, welding joint design, and alloy steel specifications. Students will continue to learn the basic theory and practice of fusing ferrous metals using shielded metal arc welding (SMAW) and Gas Metal Arc Welding (GMAW) processes. Gas Metal Arc Welding (GMAW) are the processes emphasized, including information on power supplies, wire feed equipment, shielding gases, filler metal selection, and electrical characteristics of the arc. Students gain experience with a selection of welded joint designs. Standard industrial safety procedures are stressed.

Industry certification: OSHA, 3G and 4G SMAW, and 3 G and 4G GMAW certification available. Note: This course is aligned to WELD A112 Shielded Metal Arc Welding (SMAW), a 4-credit course within the [Welding Undergraduate Certificate](#) offered through Kodiak College. Dual credit is available.

Welding III *Grade Level(s): 11-12; Year-long course Prerequisite(s): Welding I, II; Teacher recommendation required. Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls. Certification opportunities and dual credit is available.*

Students continue learning the theory and practice of ferrous and non-ferrous metal fusion. Shielded Metal Arc Welding and Gas Metal Arc Welding are two of the processes emphasized. Students continue welding high strength steels with covered electrodes. Students will also use oxygen- acetylene and plasma- arc cutting systems. Projects in both steel and aluminum will develop design, layout and fabrication skills. Career opportunities in welding and related technical fields are explored. Standard industrial safety procedures are stressed.

Industry certification: OSHA, 3G and 4G SMAW Unlimited, 3 G and 4G GMAW Unlimited, 3G and 4G FCAW-G, 3G and 4G FCAW-S, and 6G SMAW certifications are available. Note: This course is aligned to WELD A114 Welding of High Strength Steels, a 3-credit course within the [Welding Undergraduate Certificate](#) offered through Kodiak College. Dual credit is available.

Welding IV *Grade Level(s): 12; Year-long course Prerequisite(s): Welding I, II, & III; Teacher recommendation required. Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls. Certification opportunities and dual credit is available.*

This class prepares students to attend post-secondary education in the field of welding or enter the workplace. Students will gain introductory experience in Oxy-Acetylene and Tig Welding. They will also be introduced to basic CAD and bluepring reading to include welding symbols. Students will be introduced to metallurgy and how it applies to the welding process. Gas Metal Arc Welding (GMAW) processes are emphasized. A final project will be completed to apply the skills learned throughout their time in welding. Work-based Learning or Selected Topics. Work-based learning opportunities, (e.g., Internship, Apprenticeship) may be available based on Teacher recommendation and availability.

Industry certification: OSHA, 3G and 4G SMAW Unlimited, 3 G and 4G GMAW Unlimited, 3G and 4G FCAW-G, 3G and 4G FCAW-S, and 6G SMAW certifications are available. Note: This course is aligned to WELD A161 Gas Metal Arc Welding (GMAW), a 3-credit course within the [Occupational Endorsement Certificate in Welding](#) through University of Alaska Anchorage. Dual credit is available.

English Language Acquisition Program

English Language Acquisition Program (ELAP) *Grade Level(s): 9-12. Placement by ELAP teacher only.*

ELAP is designed for students who are within their first few years of English language development. Students in this class will work on Basic Interpersonal Communication Skills, and further develop their reading, writing, speaking, and listening skills.

Intro to American Culture *Grade Level(s): 9-12; Placement by ELAP teacher only.*

Introduction to American Culture is designed for ELAP students and covers basic American history, precolonial to modern America. Students will learn about important figures, key events, basic geography, and civics to develop an understanding of the United States. American Culture is recommended for ELAP students enrolled in ELAP 1.

Skills Development I *Grade level(s): 9-12. Placement determined by ELAP teacher.*

Skills Development is offered primarily to those enrolled in ELAP I. Skills Development focuses on exposing students to literature, building vocabulary, providing study skills, and supporting language development in the content areas.

Skills Development II *Grade level(s): 9-12. Placement determined by ELAP teacher.*

Skills Development II is open to all ELAP students. Students will be given academic and linguistic support for their classes, as well as continued instruction in Language Acquisition.

Fine Arts

Advanced Orchestra Grade Level(s): 9-12; Year-long course

Prerequisite(s): By audition only.

This is an intensive performance-based class. Students will study and perform a variety of orchestral literature in concerts and at community events. Basic music theory, musical composition and music history will be studied as required for selected repertoire. Students will have the opportunity to work on solo, ensemble music and are eligible to participate in the ASAA All State Music Festival, the NAFME All-Northwest Conference, the Region III Solo & Ensemble Music Festivals, and the ASAA State Solo & Ensemble Festival.

AP Studio Art: 2-D Design Grade Level(s): 11-12; Year-long course

Prerequisite(s): Art III or teacher recommendation required (Advanced Art is recommended, but not required) Course Fee is \$40. Additional course fee is required for the AP exam.

Students will expand their two-dimensional design skills and advance their visual communication skills by exploring a variety of design processes and techniques, as well as compositional and aesthetic concepts. Students will produce a minimum of 24 works that satisfy the requirements of the quality, concentration, and breadth sections of the AP Studio Art: 2-D Design Portfolio. Students will participate in monthly class critiques. Sketchbooks will be used throughout the year for note taking, completing reflections, and doing practice sketches. (Sketchbooks will be provided). Students also create a digital portfolio.

AP Studio Art: 3-D Design Grade Level(s): 11-12; Year-long course

Prerequisite(s): Art III or teacher recommendation required (Advanced Art is recommended, but not required) Course Fee is \$40. Additional course fee is required for the AP exam.

Students will expand their three-dimensional design skills and advance their visual communication skills by exploring a variety of design processes and techniques, as well as compositional and aesthetic concepts. Students will produce a minimum of 18-20 works that satisfy the requirements of the quality, concentration, and breadth sections of the AP Studio Art: 3-D Design Portfolio. Students will participate in monthly class critiques. Sketchbooks will be used throughout the year for note taking, completing reflections and doing practice sketches. (sketchbooks will be provided). Students will create a digital portfolio.

AP Studio Art: Drawing Grade Level(s): 11-12; Year-long course

Prerequisite(s): Art III or teacher recommendation required (Advanced Art is recommended, but not required) Course Fee is \$40. Additional course fee is required for the AP exam.

Students will expand their drawing and two-dimensional design skills and advance their visual communication skills by exploring a variety of design processes and techniques, as well as compositional and aesthetic concepts. Students will produce a minimum of 24 works that satisfy the requirement of the quality, concentration, and breadth sections of the AP Studio Art: Drawing Portfolio. Students will participate in monthly class critiques. Sketchbooks will be used throughout the year for note taking, completing reflections and doing practice sketches. (sketchbooks will be provided).

Art I Grade Level(s): 9-12; Semester or Year-long course

Prerequisite(s): None; Course Fee is \$20 per semester

This class teaches the basics of drawing, color theory, painting and sculpture. Students will learn about the elements and principles of design, while working on teacher directed and students directed projects. Students will gain a basic understanding of the art history timeline, as well as cultural influences on art. Sketchbooks will be used throughout the year for taking notes, completing reflections and doing practice sketches. (Sketchbooks will be provided).

Art II *Grade Level(s): 10-12; Semester or Year-long course*

Prerequisite(s): Art I or Teacher recommendation required. Course Fee is \$20 per semester

This class will focus more on the principles of design, while introducing students to different art mediums in the area of drawing, 2-d and 3-d design. This class will provide the students more opportunities to push their creativity and practice their artistic skills. Students will be given problems to solve related to principles of design, using mediums. Students will also be given the opportunity to study certain artists and cultural arts. Sketchbooks will be used throughout the year for note taking, completing reflections and doing practice sketches. (Sketchbooks will be provided).

Art III *Grade Level(s): 11-12; Semester or Year-long course*

Prerequisite(s): Art II or Teacher recommendation required. Course Fee is \$20 per semester

This class will give students the opportunity to engage more in visual problem solving, encouraging creative thinking and cooperative learning. Students will use advanced art techniques to express themselves and their relationships to their families, cultures, society and the world. Students will also be given the opportunity to study certain artists and cultural arts. Sketchbooks will be used throughout the year for note taking, completing reflections and doing practice sketches. (Sketchbooks will be provided).

Concert Band *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): Prior experience with traditional band instrument. This course is repeatable for additional credit but requires teacher approval.

Students will perform a variety of concert band literature in concerts and at community events. Students, in combination with Jazz Band students, will serve the school community as the performing Pep-Band at various sporting and pep events. Basic music theory, musical composition and music history will be studied. Students will have the opportunity to work on solo/ensemble music and are eligible to participate in the All-State, All-Northwest and Region III/State Solo/Ensemble Music Festivals.

Jazz Band *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): Audition and teacher recommendation required.

Students will perform a variety of jazz band literature in concerts and at community events. Students, in combination with Concert Band students, will serve the school community as the performing Pep-Band at various sporting and pep events. Music theory, basic musical composition and, and music history will be studied. Students will have the opportunity to work on solo/ensemble music and are eligible to participate in the All-State, All-Northwest and Region III/State Solo/Ensemble Music Festivals.

Orchestra *Grade Level(s): 9-12 grade; Year-long course*

Prerequisite(s): Prior experience with a traditional string instrument recommended. Beginners are allowed. This course is repeatable for additional credit but requires teacher approval.

Students will study and perform a variety of orchestral literature in concerts and at community events. Basic music theory, musical composition and music history will be studied as required for selected repertoire. Students will have the opportunity to work on solo, ensemble music and are eligible to participate in the ASAA All State Music Festival, the Name All-Northwest Conference, the Region III Solo & Ensemble Music Festivals, and the ASAA State Solo & Ensemble Festival.

Mixed Choir *Grade Level(s): 9-12; Year-long course*

Students will study and perform a variety of vocal literature for treble and mixed voices. Basic music theory, music composition and music history will be studied. Students are eligible to audition for the All-State, All-Northwest, and Solo and Ensemble Music Festivals.

Health

Wellness Health I *Grade Level(s) 9-10; Semester Course*

Prerequisite(s): None.

This class is based on developing real skills to improve a teenager's self-control of their physical, mental, emotional and spiritual (values) health. The class will take students through 4 major topics: 1) Increasing physical health 2) Personal safety and injury prevention 3) Healthy growth and sexuality 4) Substance use and abuse.

Wellness Health II *Grade Level(s): 11-12; Semester course*

Prerequisite(s): None.

The major emphasis in Health II is for students to comprehend concepts related to health promotion and disease prevention, analyze the influences on health behaviors, apply thoughtful decision making and self + management skills to enhance health, acquire important life skills, and advocate for personal, family, and community health.

Language Arts

AP Language and Composition *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): Teacher recommendation required. This class is worth one additional GPA point. NCAA approved course. Course fee is required for the AP Exam.

Students in this introductory college-level course read and carefully analyze a broad and challenging range of nonfiction prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy while strengthening their own composing abilities. Course readings feature expository, analytical, personal and argumentative texts from a variety of authors and historical contexts. Students examine and work with essays, letters, speeches, images and imaginative literature. Appropriate scores on the exam are worth college credit at many institutions. AP grades are weighted on a 5.0 GPA scale.

Composition & Literature 9 *Grade Level(s): 9; Year-long course*
Prerequisite(s): Teacher recommendation. NCAA approved course.

This course is a freshman-level course designed to prepare students to analyze and write about literature. The course builds a framework of both cultural and personal awareness through reading, discussing, and writing about ideas presented in short stories, poems, plays and novels. Writing assignments will emphasize analysis and organization within the well-developed paragraph and the short essay. Also included are exercises in grammar and the use of literary terms, memorization of poetry and oral presentations of original work.

Composition & Literature 10 *Grade Level(s): 10; Year-long course*
Prerequisite(s): Comp & Lit 9; Teacher recommendation NCAA approved course.

Composition skills are developed through poetry, the expository essay, the formal essay and the research paper. Understanding and analyzing literature is explored through discussion and writing. Grammar and vocabulary lessons occur weekly.

Composition & Literature 11 *Grade Level(s): 11; Year-long course*
Prerequisite(s): Comp & Lit 10; Teacher recommendation NCAA approved course.

This course is a continuation of the skills developed in Comp and Lit 9 and 10 and is designed with the intent of satisfying 11th grade appropriate standards directly correlating to the New Alaska State Standards for Language Arts. This is a language arts skills-based course, which covers such skills as Reading Informative and Literary texts for key ideas and details and craft and structure. Additionally, students will focus on writing argument as well as informative compositions. Students will complete a study of the conventions of English in order to demonstrate a knowledge of language as well as continually developing vocabulary. Finally, students will perform active speaking, listening, and presentation skills. The content of practice, reading, and assessment will occur during class. Homework is minimal and will be at the discretion of the teacher. This is not a literature course. The focus is on critical thinking, reading, writing and speaking as outlined by the new Alaska State Standards and informed by the Common Core Curriculum.

Composition and Literature: Contemporary Topics *Grade Level(s): 11-12; Semester only (.5 credit). Prerequisite(s): None.*

The course prepares students to participate in the discourse of contemporary issues concerning their community both local and national. Students will work toward mature skills of critical inquiry: reading, writing, listening, speaking, and cooperative and individual project management. Students will encounter current and classic texts which address the concerns or interests of the class. In each unit, students will act as a cohesive “think tank” to open broad topics of their choosing. Within these topics students will engage past and current literature to stimulate a formal response to a community-based need. Content is dependent on student interest and class collaboration in a democratic process of decision-making.

Philosophy and Literature *Grade Level(s): 12; Semester only (.5 credit). Prerequisite(s): None.*

Philosophy is the study of ideas as we attempt to answer life’s questions: Do we have free will? Is it every okay to lie? Are we living in a matrix? How can we live a happy life? Study the world’s greatest philosophers (Socrates, Aristotle, Kant, and Nietzsche) in a seminar setting and puzzle out the answer to the age-old question “What’s the right thing to do?”

Reading Comprehension and Writing *Grade Level(s): 9-12; Semester or Year-long course*

Prerequisite(s): Instructor approval.

Students work to improve reading comprehension and writing skills through targeted interventions. Students become familiar with reading strategies in increase fluency and understanding.

Women's Literature *Grade Level(s): 11-12; Semester only (.5 credit). Prerequisite(s): None.*

Prerequisite(s): None

This semester-long course provides students with the opportunity to read, analyze, and discuss some of the great women writers. Focusing on how women have been treated in literature historically, and how women authors have responded to their representation in literature, students will define the various myths and narratives constructed of and about women in patriarchal society. Readings will include women writers from the past five centuries and from around the world. We will also focus on writing, particularly on devising a thesis, crafting an argument, and learning how to use supporting evidence. Additional coursework will include an in-class presentation of a student-selected poet.

World Literature *Grade Level(s): 12; Year-long course*

Prerequisite(s): Teacher recommendation required. NCAA approved course.

This course is designed to meet the needs of the motivated student through the study of world literature. Emphasis is on the writing and study skills required in higher thinking. An individualized approach is used in vocabulary expansion and improvement in personal writing style. Analysis of many varieties of literature from several historical periods is the basis of writing assignments.

Mathematics

9th,10th,11th grade students will be placed in math classes based on teacher recommendation and end of year placement test results.

Algebra I *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): C or better in Prealgebra or teacher recommendation required. NCAA approved course.

This course is repeatable for additional elective credit but requires teacher approval. This course (or higher) is a district requirement for graduation. Algebra I is an introduction to the fundamental concepts of Algebra. Number studies, solving equations, analyzing, and graphing linear systems, problem solving, analyzing linear inequalities, linear systems and non-linear equations will be of primary concern in this course.

Algebra II *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): C or better in Geometry or teacher recommendation required. NCAA approved course.

This course is repeatable for additional elective credit but requires teacher approval. A comprehensive review and extension of all basic fundamentals taught in Algebra I. Areas of study will include linear functions, systems of equations, quadratic functions, polynomial functions, radical functions, exponential functions, logarithmic functions, rational functions, and trigonometric functions.

AP Calculus A/B *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): C or better in Pre-Calculus or teacher recommendation required.

This class is worth one additional GPA point. NCAA approved course. Course fee is required for the AP exam. This is an introduction to differential and integral calculus. Application is emphasized. Theory and formal proofs are dealt with on an elementary level. Appropriate scores on the exam are worth college credit at many institutions. AP grades are weighted.

AP Statistics/Probability *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): C or better in Algebra II or teacher recommendation required.

This class is worth one additional GPA point. NCAA approved course. Course fee is required for the AP exam. In this course, students will be immersed in real world problems that can only be solved with statistical methods. Students will learn to explore, summarize and display data; design surveys and experiments; use probability to understand random behavior; make inferences about populations by looking at samples from those populations; and make inferences about the effect of treatments from designed experiments. Appropriate scores on the exam are worth college credit at many institutions. AP grades are weighted on a 5.0 GPA scale

Computational Math *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): Teacher recommendation

This is a year-long course, in which students receive direct instruction in Problem Solving Skills, Numeration, Basic Math Skills, Measurement, Functions, Geometry concepts, and basic Statistics. This course is designed around the math standards. Students needing extra time to learn the content have an opportunity to receive more one on one instruction in this course.

Geometry *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): C or better in Algebra I or teacher recommendation required. NCAA approved course.

This course is repeatable for additional elective credit, but requires teacher approval. Geometry is designed to teach students to think logically and understand the basic structure of geometry. The course is used to reinforce and strengthen algebraic skills and primarily focuses on plane geometry developed from the Euclidian point of view.

Math for the Trades *Grade Level(s): 11-12; Year-long course Prerequisite(s): Algebra I. Math for the Trades does NOT satisfy the district graduation requirement of completion of Algebra I or higher.*

This course will be delivered in a blended learning environment. Coursework is designed to equip students with a solid foundation in the math needed for a variety of technical and vocational trades, such as allied health, electrical trades, plumbing, construction, mechanics, welding, engineering, architecture and many more. The math concepts are presented within the context of practical on-the-job applications, with added focus on Algebra 1 and functions.

Note: This course is required for a KIBSD/IBEW pre-apprenticeship. Seniors accepted into a KIBSD/IBEW program are required to take this course or 'test out' by passing a proctored exam provided by IBEW.

Personal Finance/Business Math *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): C or better in Algebra I.

In this introductory finance course, students learn the basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long term financial plans to meet their goals, and making responsible choices about income and expenses.

Pre-Algebra *Grade Level(s): 9-11; Year-long course*
Prerequisite(s): Teacher recommendation required.

Pre-Algebra reinforces skills necessary for the successful study of algebra. Fundamental operations with natural numbers, integers, decimals, percent and fractions are covered.

Pre-Calculus *Grade Level(s): 10-12; Year-long course*
Prerequisite(s): C or better in Algebra II or Teacher recommendation required. NCAA approved course.

Students will learn how to analyze functions from a calculus perspective: domain & range, intercepts, continuity, symmetry, transformations, composition, and inverse. Polynomial, rational, and radical functions will receive primary attention including the skill of equation solving. Students will also learn trigonometry: evaluating, graphing, formulas, solving equations, and identities. The year will conclude with an introduction to derivatives.

Physical Education

Advanced Dance *Grade Level(s): 9-12; Semester or Year-long course*
Prerequisite(s): Dance; Audition; Instructor approval only. This course is repeatable for additional credit but requires teacher approval.

This course will focus on the serious dancer who wants more advanced instruction and skill development in the ever-expanding field of dance. The course will focus on technique, student choreography, performance and dance production.

Adventure Recreation *Grade Level(s): 9-12; Semester or Year-long course*
Prerequisite(s): None. This course is repeatable for additional credit.

In adventure recreation, students will take part in a variety of team building and initiative problem solving activities. This includes group games to help foster a cooperative learning environment while developing critical thinking and communication skills. This course is designed to offer nontraditional activities that are less competitive and emphasizes team building, cooperation, problem solving, and building self-confidence. It will help to have students understand that challenge, enjoyment, creativity, self-expression, teamwork, cooperation, and social interaction are important life-enhancing experiences. Possible activities may include; hiking, biking, swimming, golf, snow shoeing, archery, Geocaching, and more.

Dance *Grade Level(s): 9-12; Semester or Year-long course.*
Prerequisite(s): None. This course is repeatable for additional credit.

Dance techniques, styles and combinations will be presented in dance forms such as jazz, hip-hop, modern, ballet, contemporary and social dance. Introduction to and practice of choreographic material will occur regularly. Students will perform in an annual Dance Concert. The use of various music styles and props will lend to this exploration of dance.

Team Sports *Grade Level(s): 9-12; Semester or Year-long course*

Prerequisite(s): None. This course is repeatable for additional credit.

In this course, students will learn the rules, skills and strategies for various team sports that may include soccer, basketball, volleyball, ultimate Frisbee, water polo, flag football, softball and baseball. Developing and maintaining a healthy level of physical fitness will also be a focus of the class. Sportsmanship will be an essential component of student participation.

Weight Training and Conditioning *Grade Level(s): 9-12; Semester or Year-long course*

Prerequisite(s): None. This course is repeatable for additional credit.

This class will focus on physical fitness through core conditioning, weight training and cardio-respiratory conditioning. The primary focus will be strength gain through lifting in a serious disciplined program, coupled with strenuous cardiovascular conditioning. This is a good way for student athletes to maintain basic conditioning both on and off-season. Open to both boys & girls of all grades 9-12.

Yoga-Pilates *Grade Level(s): 9-12; Semester or Year-long course*

Prerequisite(s): None. This course is repeatable for additional credit.

This class will incorporate both Yoga and Pilates techniques in order to provide a low-impact, full-body work out. We will focus on improving core strength while increasing flexibility and balance. This class is appropriate for all fitness levels and complements other physical training (running, weightlifting etc).

Other Electives

Partners' Club *Grade Level(s): 9-12; Semester or Year-long course*

Prerequisite(s): Instructor approval. This course is repeatable for additional credit but requires teacher approval.

The Partners' Club is a diverse class of students with various levels of ability. As a group, students work to increase awareness of differences, opinions and stereotypes to promote a better understanding of all people. Through social, recreational and service learning, students contribute positively to the school, community and their own personal growth.

Academic Extensions *Grade Level(s): 9-12; Semester or Year-long course*

Prerequisite(s): Instructor approval.

Students explore strategies for academic success, organization, post-secondary planning, and employability skills.

Study Skills *Grade Level(s): 9-12; Semester or Year-Long course*

Prerequisite(s): Instructor approval.

Students explore strategies for academic success, organization, post-secondary planning, and employability skills.

Science

AP Chemistry *Grade Level(s): 11-12; Year-long course. Prerequisite(s): Chemistry and must be enrolled in Algebra II or higher math course, or by teacher recommendation.*

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium

Biology *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): Freshmen require teacher approval and must be enrolled in Algebra I. NCAA approved course.

This course covers the traditional life science areas of Biochemistry, genetics, cell structure and function, classification, the history of life and animal anatomy and physiology. Laboratory experiences are an integral part of this course.

Chemistry *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): Completed Algebra I and Biology with a "C" or better. NCAA approved course.

This is the study of how matter (just about everything around you) behaves. In this year-long course we will learn how atoms combine to produce different molecules. Emphasis is placed on bonding, chemical reactions, periodic properties and chemical quantities. These topics are explored through lab activities and class discussion. Weekly labs reinforce classroom study. The last month of class is spent exclusively in the lab identifying unknown mixtures using qualitative analysis. This course is essential for students who plan to study science or enter a health-related career field.

Earth Science *Grade Level(s): 9-10; Year-long course*

This course focuses on looking at Earth Science as the interaction of systems. Systems studied include: 1) space, 2) earth's crust, 3) fresh water and 4) natural resources and energy. The emphasis is on lab work and scientific processes to facilitate understanding of how these systems work independently and interdependently in order to make informed decisions about real-world problems in earth science today and in the future.

Students will learn how to keep a field journal, use specific computer programs to gather information and enhance system thinking and defend scientific investigations in written and speaking formats.

Fisheries of Alaska *Grade Level(s): 9-12. Year-long course. Prerequisite: None.*

In this course, you will have the opportunity to explore biology, fishing techniques, management, and research of fisheries across Alaska, including a different fishery from a different region of the state. *This course is aligned to FT S120 Fisheries of Alaska, a 3-credit course in both the [Fisheries Management](#) Occupational Endorsement and the [Alaskan Aquaculture](#) Occupational Endorsement offered through the University of Alaska, Southeast.*

Human Anatomy & Physiology *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): Biology required; Chemistry suggested. Students may opt for .5 Health credit and .5 Science credit if taken for a full year. NCAA approved course.

This course begins with an introduction to anatomy and physiology by studying body regions, sectioning planes, directions, and movements. There is also an overview of the body's systems. Systems studied in more detail are the skeletal, muscular, cardiovascular, respiratory, digestive, nervous, endocrine, and reproductive systems. Instruction is through lectures, labs, activities, and projects. The year culminates with a major dissection of a mammal in order to help emphasize the interaction of all body systems of an organism.

Physics *Grade Level(s): 11-12; Year-long course Prerequisite(s): Biology*

Physics is the study of matter-energy relationships encompassing mechanics, kinematics, dynamics, kinetic theory, thermodynamics and electronics. Basic physics is a two-semester course consisting of lectures, discussions and laboratory periods.

Social Studies

AK History & Geography *Grade Level(s): 9-12; Semester course*

*Prerequisite(s): None. NCAA approved course. **This course is a state requirement for graduation.***

This course begins with an examination of Alaskan geography and then delves into Alaska's unique and various Native cultures. An in-depth study of Russian America will be followed by a look at Alaska as a US territory. Finally, statehood, modern issues and events will be discussed as students' progress through the course.

AP US History *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): None; This class is worth one additional GPA point. NCAA approved course. Course fee required for AP Exam.

AP U.S. History will examine the evolution of the United States from Pre-Columbian days to the present. Topics will address U.S. History through chronological and thematic approaches. The themes for AP US History include Identity, Work, Exchange and Technology, Peopling, Politics and Power, America in the World, Environment and Geography, and Ideas, Beliefs, and Culture. In preparation for the AP exam, students will participate in a variety of activities including critical reading of primary sources and secondary sources, and the use of analytical skills to write a variety of forms of communication. Appropriate scores on the exam are worth college credit at many institutions. AP grades are weighted on a 5.0 GPA scale.

AP World History *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): None; This class is worth one additional GPA point. NCAA approved course. Course fee required for AP Exam.

The AP World History course will provide global coverage of Africa, Asia, Europe and the Americas through six themes: 1) the dynamics of change and continuity across world history periods, 2) patterns and effects of interaction among societies and regions, 3) the effects of technology, economics, and demography on people and the environment, 4) systems of social structure and gender structure, 5) cultural, intellectual and religious developments and 6) changes in functions and structures of states and in attitudes toward states and political identities. Appropriate scores on the exam are worth college credit at many institutions. AP grades are weighted.

Civics & Current Issues *Grade Level(s): 9-12; semester course*

Prerequisite(s): None. NCAA approved course

The Civics and Current Issues course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in national and global contexts through the study of current issues, economics, and the processes of government.

General Psychology *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): None. NCAA approved course

This course is an overview of the theories that explain behavior and mental processes. Emphasis is on providing tools to help students gain insight into their own behavior, their relationships with others and the influences of society on personal interactions.

Asian/Pacific Rim History *Grade Level(s): 11-12; semester-long course*

Prerequisite(s): None.

Where did we get tests from? Gunpowder? Silk or Curry? Asia is the world's largest continent with a deep history. From the ancient cultures of Mesopotamia and the Levant, China, and India to the great Pacific Rim cities of the 21st century. Come and explore the great continent that is Asia. Learn about Middle Eastern, South Asian, East Asian, and Pacific Rim cultures. From ancient epics to kung-fu blockbusters, learn about a part of the world most know little about.

Sociology *Grade Level(s): 11-12; semester-long course*

Prerequisite(s): None.

How do our individual lives fit into society? How does society work? Sociology is the study of people together, how they act and the many problems and conflicts that shape them. We will study Theories, Culture, Socialization, Deviance, and much more! Sociology helps us step out of our individual bubbles and see humanity for what it really is...a discoverable enigma!

US History *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): None. NCAA approved course. This course (or AP US History) is a district requirement for graduation.

This course begins with Reconstruction and continues through to the present day. Students will examine the social, economic and political impacts of major events throughout the history of the United States

World History *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): None. NCAA approved course.

This course begins with ancient civilizations and continues to follow the development of civilization through WWII. Regional philosophy, development of technology, political ideas and social structure of selected cultures will be explored in order to understand their influence on the development of nations.

World Languages

Alutiiq Language I *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): None.

The course covers the basics of Alutiiq pronunciation, vocabulary, grammar and culture, with emphasis on conversational Alutiiq, reading and writing the Alutiiq alphabet and basic words or phrases. Additionally, students will explore Alutiiq song, arts, geography, stories and history.

Spanish I *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): None. NCAA approved course.

This course is designed to give students the ability to communicate in everyday Spanish. The course uses a technique called Teaching Proficiency through Reading and Storytelling (TPRS). The main focus of this course is to help students acquire language through Comprehensible Input (CI), and focuses on mastery of high-frequency words, in context.

Students can expect to acquire language through storytelling, reading and writing short stories, leveled readers, readers' theater, songs, Movie Talks, and illustrations, among other techniques.

This course is mainly held in Spanish, with aids to help with comprehension.

Spanish II *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): 2.5 (C) or better in Spanish I; Teacher recommendation required. NCAA approved course.

This course builds upon material acquired in Spanish I, using TPRS and CI techniques, and goes deeper into the high-frequency word list.

Students can expect to acquire increasingly complex language, and interact at a more natural rate, through additional exposure and practice. Students will continue to acquire through storytelling, reading and writing short stories, leveled readers, readers' theater, songs, Movie Talks, and illustrations, among other techniques.

Spanish III *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): Spanish II; Teacher recommendation required. NCAA approved course.

This course takes a look at all of Spanish 1 and 2, and says, "It's go time!" This is where the hard work in Spanish 2, in particular, pays off. Students get an opportunity to enjoy the scenery, having already learned a great number of tricks, and can now attack their studies with greater efficacy. This means that students now get a solid chance to show off, to add some polish to their language skills, and truly impress. It involves exploring culture through literature, pop culture, and current events, as a means of developing students' interests, all while providing context for the sophisticated grammatical pieces to come.

Grammar goals include mastery of the subjunctive tenses, as well as the compound tenses. Vocabulary goals include broadening understanding and usage of colloquial Spanish, as well as

Hispanic/Latino holiday traditions give us opportunities to share out, and to compare and contrast our respective cultures, and allow for deeper appreciation of our roots and experiences.

Spanish IV *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): C or better in Spanish III; Teacher recommendation required. NCAA approved course.

This course builds upon material acquired in Spanish I, II, and III, also using Teaching Proficiency through Reading (TPRS) and Storytelling and Comprehensible Input (CI) techniques and gives students an opportunity to dramatically increase their competency and fluency in Spanish, to the point they can begin to interact with sympathetic native speakers. The focus continues to be on proficiency, with an emphasis on everyday language, opposed to the textbook variety.

Students can expect to see noticeable gains in their ability to understand, and be understood, largely by further developing their vocabulary and grammar skills, contextually. Students can expect to acquire the language structures they may need to understand and communicate in a wide variety of situations.

Students will continue to acquire through storytelling, reading and writing short stories, reading independently, and as a class, readers' theater, songs, Movie Talks, and illustrations, among other techniques.

Russian I *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): None. Offered for dual credit.

The course introduces Russian language, history, and culture. Students learn to read and write in Cyrillic alphabet and use basic grammar and essential vocabulary, while practicing conversational skills in a culturally appropriate way. The use of the officially approved college level textbook and curriculum ensures a future possibility to test out of the first semester of Russian 101 in college. Starting from the 2nd semester students start communicating with their English-learning peers in Russia. Additionally, students earn multiple extra credits for performing Russian songs, dances, and exploring Russian art forms through various cross-disciplinary projects.

Russian II *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): Russian II or instructor approval.

Students continue to build upon material acquired in Russian I and learn advanced grammar and vocabulary, while communicating with their English-learning peers in Russia. The use of the officially approved college level textbook and curriculum ensures a future possibility to test out of Russian 102 in college or become eligible for federally funded

scholarships available for languages critical for national defense. Additionally, students earn multiple extra credits for performing Russian songs, dances, and exploring Russian art forms through various cross-disciplinary projects.

Tagalog *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): None.

Introduces the Filipino language and culture. Students use the language through speaking, listening, reading, and writing at the novice level. Examines basic language structures, appropriate forms of address, and vocabulary for communication. Students enrolled in this class should have limited to no Tagalog spoken.

Tagalog 2 *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): Tagalog or instructor approval

Introduces the Filipino language and culture. Students use the language through speaking, listening, reading, and writing at the novice level. Examines basic language structures, appropriate forms of address, and vocabulary for communication. Students enrolled in this class should have limited to no Tagalog spoken.