

2022-23 Kodiak High School Course Description Catalog

Career Technology and Electives

3D Modeling and Animation *Grade Level(s): 9-12; Year-long course. Prerequisite: Intro to Computer Science recommended.*

3D modeling has changed the way the world makes things, and in this course, you'll learn the basics to begin creating in 3D! You'll learn how different 3D models are built and how to practice using a variety of modeling methods. By the end of the course, you'll walk away with a portfolio of your ingenious modeling and animation ideas.

Advanced Photography *Grade Level(s): 11-12; Year-long course*
Prerequisite(s): Beginning Photography; Teacher recommendation required. Students must lease a digital SLR camera from KHS. This course is repeatable for additional credit but requires teacher approval. Course fee \$30.

This course in Digital Photography is designed to develop your skills in pixel based photographic design and printing. The dream of film-less photography has finally become a reality. Printers, inks and paper have evolved that are able to not only match traditional continuous tone photographic quality but can also extend traditional possibilities. Many darkroom activities are made easier and more powerful in the digital realm. Topics include manipulation of photographic images in a digital format, digital asset management, digital workflow, cropping, tone and color correction, selection techniques, masking, colorization, image enhancement and sharpening techniques.

Advanced Game Design *Grade Level(s): 10-12; Year-long course. Prerequisite(s): Game Design & Programming.*

Building on the prior prerequisite course, use your creativity to develop a game from start to finish! Develop your game creation skills and practice with the tools professionals use to launch your career options in the field of game design. The content of this course also applies to certification exams.

Advanced Web Development *Grade Level(s): 10-12; Year-long course. Prerequisite(s): Intro to Web Development.*

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 will allow you to experience GitHub to display your work.

Automotive Technology 1 *Grade Level(s): 9-12; Semester or Year-long course. Prerequisite(s): None.*

Automotive Technology I 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. Class content 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.

Automotive Technology 2 *Grade Level(s): 10-12; Semester or Year-long*

Prerequisite(s): Automotive Tech I

Automotive Technology II 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, manual drive train, advanced brake service, electrical systems, engine performance, and advanced diagnostic principles. Visit: www.natef.org for more information.

Automotive Technology 3 *Grade Level(s): 11-12; Semester or Year-long course*

Prerequisite: Automotive Technology 2; Teacher approval

Automotive Technology III 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.

Beginning Photography *Grade Level(s): 10-12 (Upper classmen given priority); Year-long course*

*Prerequisite(s): Requires commitment of leasing a Digital SLR camera from Kodiak High School. Students will be responsible for loss and/or damage. **Course fee \$30.***

Introduces the fundamentals, concepts and applications of digital imaging techniques, including basic digital camera fundamentals, enhancing images and creating images for use in print or on the web. Students will learn how to manipulate a Digital SLR camera, how to see and appreciate light in a new way and how to apply the skills that normally took place in a darkroom to a new modern "Digital Darkroom"...Adobe Photoshop/Lightroom. By course completion, the students should know how to make images important and powerful in their own right, rather than merely "taking pictures."

Business and Entrepreneurship 1- *Grade Level(s): 9-12; Year-long course*

Prerequisite(s): None

This course covers the foundations of running a business, including customer relations, finance and accounting, human resources, information management, marketing, operations, project management, and quality management. It also covers fundamental economic principles and the role of the entrepreneur in American and global business.

Business and Entrepreneurship 2- *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): Business and Entrepreneurship 1

This course goes deeper into business basics, including entrepreneurship, economics, business law, and ethical and social responsibility. But the course also focuses on the creation of an actual marketing plan for a product and on the creation of an actual business plan for the student's own business idea.

Certified Nursing Assistant (CNA) *Grade Level(s): Students must be 16 years or older; Semester-long*
Prerequisite(s): By application only. Applications available in counseling office. Offered for dual credit.

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. Students will learn the information and practical skills necessary for taking and passing the certification exam required by the state.

Construction I *Grade Level(s): 10-12; Year-long*
Prerequisite(s): Woods Technology.

This course covers the beginning level of construction. Students will be introduced to basic information and techniques that apply to the building trades industry. Using equipment safely and the process of construction will be covered. The content outline covers: construction materials, exterior, construction safety, windows and doors, tools and machines, weatherproofing, framing, floors, walls and roofs. Students will also have the opportunity for a nationally recognized construction certification called NCCER (The National Center for Construction Education and Research). Plenty of hands-on time with power tools, hand tools and actual construction projects.

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

Successful Cosmetology 1 students will be able to demonstrate the following skills: Shampooing and Conditioning, thermal styling, braiding. Time permitting the student will also become proficient in facials, manicures, women's haircutting, and permanent waving. Future professionals will have a working knowledge of the structure of hair, nails, and skin. As future professionals the student will learn to recognize diseases and disorders of the hair nails and skin as well as infection control. Students will gain an understanding of sterilization, sanitation, bacteriology, state laws/regulations, and salon management.

Culinary Arts I *Grade Level(s): 9-12; Year-long course*
Prerequisite(s): None. Course Fee is \$25 per semester

Culinary Arts I is designed to acquaint the student with the food service industry. The areas to be covered will be careers, food service practices, management, laws, industry standards, safety and sanitation, the professional kitchen, culinary applications and baking and pastry applications.

Culinary Arts II *Grade Level(s): 10-12; Year-long course*
Prerequisite(s): Culinary Arts I; Teacher recommendation required. Course Fee \$25 per semester

Culinary Arts II is designed to further expand the basic skills learned in Culinary Arts I. The student will study the history and development of the restaurant industry and continue to increase food production, presentation and service knowledge and skills while maintaining industry standards for safety and sanitation as well as food handling techniques.

Culinary Arts-Advanced Studies *Grade Level: 11-12. Year-long course. Course Fee \$25/semester.*

Prerequisite: Culinary I and II. Teacher recommendation required. This course is repeatable for credit but requires instructor approval.

Advanced Culinary Arts is designed to advance the student with acquiring more food service knowledge and skills with the addition of the ProStart Curriculum for certification. ProStart is designed by the National Restaurant Association as part of the school-to-career approach to learning. Upon completion of mandated requirements, students can receive certifications in ProStart, Serv-Safe and Alaska Hospitality.

Fisheries 1 *Grade Level(s): 9-12; Year-long course.*

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

Prerequisite(s): Fisheries 1 or Instructor Approval

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.

Gaming Design and Programming *Grade Level(s): 9-12; Year-long course. Prerequisite(s): Intro to Computer Science recommended.*

Pursue your passion by learning about the principles of game design through the stages of development, iterative process, critiques, and game development tools. Put these new skills to work by designing your own game!

Intro to Web Design *Grade Level(s): 9-12; Year-long course. Prerequisite(s): Intro to Computer Science recommended.*

In this course, you'll start to get a real picture of professional web development, including how to create content for the web. You'll learn about topics such as servers, file organization, HTML, CSS, JavaScript, and the development stack that will let you build any website you can dream up!

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

Prerequisite(s): None

This second semester course is a continuation of Introduction to Multimedia and will continue the focus of studies in graphic design. Semester 2 covers an introduction to executing vector-based illustration using Adobe Illustrator. Topics include navigation of the interface, the tools, drawing and manipulating basic objects, creating and manipulating type, drawing with the pen tool, applying color, using layers and an introduction to Adobe Flash software. Topics include the integration of graphics, text, audio and video into animated and interactive Web presentations. Students will use their creativity and skills to create and edit interactive multimedia presentations, digital images, sound, and movies, and will be introduced to animation and web pages. The knowledge and skills acquired in this class will enable students to successfully perform and interact in today's technology-driven society. *Students may work their way towards industry certification opportunities.*

Outboard Engine Repair *Grade Level(s) 9-12*

Prerequisite(s): Small Engines, Auto 1, or Teacher Approval

This class covers the theory of operation and hands-on maintenance of 2-stroke and 4-stroke outboard engines. Classroom instruction is organized by the three major components of an outboard: power-head, mid-section, and the lower unit. Hands-on practice in the lab follows each section that is covered in the classroom. Topics include machinery of each component, compression tests, changing sparkplugs, oil changes, trouble shooting, parts replacement, the importance of maintenance, winterizing, and other topics. This class is for set-netters, sports fishing enthusiasts, owners of commercial fishing vessels, non-boaters, those wishing to explore a career in outboard maintenance, and any other interested party.

Small Engines *Grade Level(s): 9-12; Semester*

Prerequisite(s): None

This course covers principles of small gasoline engine theory, shop safety habits, employability skills, tool identification and usage, and environmental concerns related to internal combustion engines. Course content includes: lab safety and procedures, engine operating systems, battery charging, basic electricity, symptom troubleshooting, tools and equipment, employability skills, engine theory and design, industry performance standards, marine applications, and Skills-USA involvement.

Textile Art: Quilting 1, 2 *Grade Level(s): 9-12; Semester or Year-long course*

Prerequisite(s): None.

Students will design and construct several quilts from beginning to end. Topics covered will include: safe use of a sewing machine and other quilting tools, basic maintenance of a sewing machine, appropriate fabric, thread and color selection, piecing, borders, backing, machine quilting and binding. Geometric topics of Transformations and Tessellations will be integrated into the process.

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

Prerequisite(s): Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls.

Offered for dual credit. Course Fee is \$30 Per semester (includes cost of OSHA card)

Students will learn the basic theory and practice of fusing ferrous metals. Shielded Metal Arc Welding (SMAW) is the process emphasized. Students gain experience with a selection of welded joint designs and a variety of electrodes. Standard industrial safety procedures are stressed.

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

Prerequisite(s): Welding I; Teacher recommendation required. Offered for dual credit. Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls. Course Fee is \$30 Per semester

Students will learn the basic theory and practice of fusing ferrous metals. Gas Metal Arc Welding (GMAW) are the processes emphasized. Students gain experience with a selection of welded joint designs. Standard industrial safety procedures are stressed.

Welding III *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): Welding II; Teacher recommendation required. Offered for dual credit. Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls. Course Fee is \$30 Per semester.

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 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.

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

Prerequisite(s): Welding III; Teacher recommendation required. Offered for dual credit. Students are required to provide their own safety glasses, welding gloves, welding helmet and coveralls. Course Fee is \$30 Per semester.

This class prepares students to attend post-secondary education in the field of welding. Students will gain introductory experience in Oxy-Acet and Tig Welding. They will also be introduced to basic CAD and blueprint reading to include welding symbols. Students will be introduced to metallurgy and how it applies to the welding process. A final project will be completed to apply the skills learned throughout their time in welding.

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

Prerequisite(s): None; Course fee is \$25

Wood Technology I is comprised of courses and/or programs designed to introduce and develop skills related to woods and the woodworking industry. Emphasis is placed on safety in the woodworking laboratory, the study of materials, common woodworking tools, woodworking methods and wood finishing. Students will design and make projects that are handy and professional. Examples are band saw laminated coat racks, end grain cutting boards, lathe turned bowls and plates. There is ample time and materials to make plenty of small, useful projects for the house as they learn technical joinery of wood.

Woods Technology II, III, IV *Grade Level(s): 10-12; Year-long course*

Prerequisite(s): Previous level Woods Tech and teacher approval; Course Fee is \$25

This course is comprised of courses and programs designed to introduce and develop skills related to woods and the woodworking industry. Emphasis is placed on safety in the woodworking laboratory, the study of materials, common woodworking tools, woodworking methods and wood finishing. Students will design and make more advanced projects that may take a little longer but will involve advanced joinery and techniques. There are projects assigned if a student doesn't know what to make on their own.

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

*Prerequisite(s): Multimedia and/or photography strongly suggested. **Application and interview required.** This course is repeatable for additional credit, but requires teacher approval.*

This publication course produces the KHS Channel Light. Admission is by application and teacher approval. Students may specialize in layout, photography, business management, computer technology, advertising and sales, writing and editing or art. Skills in Adobe Photoshop and Adobe InDesign are very helpful. Students are selected on the basis of the capacity to work independently, creatively and responsibly. Interpersonal skills, technical skills, dedication and positive attitude are also important criteria used in the selection process. Staff must be prepared to put in time outside of the regular school day.

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

Skills Development is offered primarily to those enrolled in ELAP 1. Skills Development focuses on exposing students to literature, building vocabulary, providing study skills, and supporting language development in the content areas.

Skills Development 2 *Grade level(s): 9-12. Placement determined by ELAP teacher.*

Skills Development 2 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

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, 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. 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 NAFME All-Northwest Conference, the Region III Solo & Ensemble Music Festivals, and the ASAA State Solo & Ensemble Festival.

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.

Mixed Choir Grade Levels: 9-12; Year-long course.

Prerequisite(s): Read the choir handbook and return student forms and fees. Course Fee: \$100 (\$80 waived if student already owns a KHS choir uniform). Course fee will be due the first week of class. Prior experience in a vocal ensemble is helpful, but not necessary. No audition is required.

This is a group performance-based class. Two co-curricular rehearsals and two concerts outside of regular class time are required per semester. One group performance of the national anthem at a school sporting event will be required per semester. Students will study and perform a variety of vocal literature for tenor/baritone/bass voices as well as literature for mixed voices. Basic music literacy, vocal technique, and performance practices will be studied. Students in this course may be eligible to audition for extracurricular ASAA All-State and Solo/Ensemble Music Festivals. Repeatable unlimited times with instructor approval.

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 Literature and Composition Grade Level(s) 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.

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. 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.

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

This class explores mythology from around the world, including Greek, Asian, Alutiiq, Celtic, and Middle Eastern. Read about the adventures of ancient heroes and gods and study how contemporary literature and film incorporate mythological ideas. If you loved Percy Jackson, *Aladdin* or *Lord of the Rings*, you'll enjoy this class.

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.

World Literature *Grade Level(s): 12; Semester (.5 credit) OR Year-long (1.0 credit). Prerequisite(s): None.*

Love and war, seduction, jealousy, heartbreak, revenge- last night on Netflix and ...4,000 years ago! What do you have in common with ancient Mesopotamian kings, Greek goddesses, knights in King Arthur's court and sorceresses stuck in bad marriages? You might be surprised. Read classics from ancient and medieval times to the Renaissance and WWII and learn about what it means to be human. An excellent survey course for history buffs, college-bound seniors and anyone who loves a good story. This course can be a semester or year-long course.

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 for the Trades *Grade Level(s): 10-12*

Prerequisite(s): Teacher recommendation required.

This course 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. ***This course meets the Algebra I requirement for graduation.***

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 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.

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.

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.

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

Prerequisite(s): Biology

The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. 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.

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.

Physical Science *Grade Level(s): 11-12; Year-long course*

Prerequisite(s): Biology

Nervous about taking Chemistry? Unsure if you'll like Physics? Physical Science is the perfect class for you! In this year-long course, you will learn the basics of Chemistry AND Physics. It is the perfect opportunity to explore your science interests.

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 European 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.

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

AP Psychology *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.

This course is an examination of theories and research that explain behavior and mental processes. Class time is primarily focused on labs, activities and discussions. Emphasis is on comprehension and analysis of the five domains of psychology identified by the American Psychological Association: Methods, Biopsychological, Cognitive, Developmental, and Sociocultural. Appropriate scores on the exam are worth college credit at many institutions. AP grades are weighted on a 5.0 scale.

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.

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 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.

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

Students will learn basic conversational skills for French, cultural components of French speaking countries, basic reading and writing skills in French. This class uses Schoology as the repository for assignments and the main mode for turning assignments in but this class is in blended format. This means that students are expected to attend class daily for in-person instruction, partner conversations, and group work. We will also create French media, play French video games, and sing French songs.

French II *Grade Level(s): 10-12; Year-long course*
Prerequisite(s): French I or instructor approval

Students will learn multiple verb tenses to be able to express themselves enough to tell stories and write essays. Students will read multiple novels, will participate in daily speaking activities, build a video French video game, create French media, sing French songs. This class uses Schoology as the repository for assignments and the main mode for turning assignments in but this class is in blended format. This means that students are expected to attend class daily for in-person instruction, partner conversations, and group work.

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

Prerequisite(s): Tagalog I 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.