

Distance Education Course Offerings

Fall Term, 2023-2024 School Year

The Distance Learning Program plans to offer the following classes during the Fall Term of the 2023-2024 school year. All classes are taught by appropriately highly qualified KPBSD teachers. Classes are asynchronously delivered via the Internet (some classes require a textbook) and can be taken at any time of the day.

This list may not include all classes offered by the Career and Technical Education Department. For more information on Career and Technical Education courses, check the [KPBSD CTE website](#) or contact [Annaleah Karron](#) (907-260-2307).

(Last updated: 4/5/2023)

List of Courses by Content Area

Advanced Placement

- [AP Calculus \(MM755\)](#) (Stephanie Cronin)
- [AP Computer Science Principles \(BB920\)](#) (Beth Swaby)

Electives

- [Introduction to Art* \(AA705\)](#) (TBD)
- [Health* \(JJ705\)](#) (Jen Johnson)
- [Keyboarding* \(BB705\)](#) (Jen Johnson)
- [Music Appreciation* \(UU755\)](#) (Jeff Moore)
- [Music Theory* \(UU760\)](#) (Jeff Moore)
- [Movement/Activity* \(PP720\)](#) (Andy Rothenberger)

Language Arts

- [Creative Writing \(LL750 A & B\)](#) (Jonathan Crocker) - *Not available to 9th grade*
- [Language Arts 9 A \(LL705A\)](#) (Jonathan Crocker)
- [Language Arts 9 B \(LL705B\)](#) (Jonathan Crocker)
- [Language Arts 10 A \(LL710A\)](#) (Jonathan Crocker)
- [Language Arts 10 B \(LL710B\)](#) (Jonathan Crocker) - *Next offering scheduled for Spring 2024*
- [Language Arts 11 A \(LL715A\)](#) (Joe Waarvik)
- [Language Arts 11 B \(LL715B\)](#) (Joe Waarvik)
- [Language Arts 12 A \(LL790A\)](#) (Joe Waarvik)
- [Language Arts 12 B \(LL790B\)](#) (Joe Waarvik) - *Next offering scheduled for Spring 2024*

Math

- [Algebra I A \(MM725A\)](#) (Andy Rothenberger)
- [Algebra I B \(MM725B\)](#) (Andy Rothenberger)

*Indicates one semester class.

- [Geometry A \(MM730A\)](#) (Stephanie Cronin)
- [Geometry B \(MM730B\)](#) (Stephanie Cronin)
- [Advanced Algebra A \(MM735A\)](#) (Stephanie Cronin)
- [Advanced Algebra B \(MM735B\)](#) (Stephanie Cronin)
- [Personal Finance* \(MM760\)](#) (Jeff Moore)
- [Business Math* \(MM727\)](#) (Jeff Moore)
- [Pre-Calculus A \(MM745A\)](#) (Stephanie Cronin)
- [Pre-Calculus B \(MM745B\)](#) (Stephanie Cronin) - *Next offering scheduled for Spring 2024*
- [Calculus A \(MM750\)](#) (Stephanie Cronin)
- [Calculus B \(MM750\)](#) (Stephanie Cronin) - *Next offering scheduled for Spring 2024*
- [AP Calculus \(MM755\)](#) (Stephanie Cronin)

Science

- [Biology A \(SS710A\)](#) (Kim Leslie)
- [Biology B \(SS710B\)](#) (Kim Leslie)
- [Earth Science A \(SS750A\)](#) (Kim Leslie)
- [Earth Science B \(SS750B\)](#) (Kim Leslie)
- [Physical Science A \(SS755A\)](#) (Kim Leslie)
- [Physical Science B \(SS755B\)](#) (Kim Leslie) - *Next offering scheduled for Spring 2024*
- [Physics A \(SS780A\)](#) (Andy Rothenberger) - ★NEW★
- [Physics B \(SS780B\)](#) (Andy Rothenberger) - ★NEW★
- [Environmental Studies A \(SS740A\)](#) (Andy Rothenberger) - ★NEW★
- [Environmental Studies B \(SS740B\)](#) (Andy Rothenberger) - ★NEW★ *Next Offering scheduled for Spring 2024*

Social Studies

- [AK History* \(TT730\)](#) (Steve Cothran)
- [Government* \(TT720\)](#) (Steve Cothran)
- [U.S. History A \(TT710A\)](#) (Jonathan Crocker)
- [U.S. History B \(TT710B\)](#) (Jonathan Crocker)
- [World History A \(TT705A\)](#) (Steve Cothran)
- [World History B \(TT705B\)](#) (Steve Cothran)
- [Geography A \(TT745A\)](#) (Andy Rothenberger)
- [Geography B \(TT745B\)](#) (Andy Rothenberger)

World Languages (Emanuela Pokryfki)

- [French 1A \(WL705A\)](#)
- [French 2A \(WL710A\)](#)
- [Advanced French \(3/4\) A \(WL715A\)](#)
- [Italian 1A \(WL795A\)](#)
- [Spanish 1A \(WL 765A\)](#)
- [Spanish 1B \(WL 765B\)](#)
- [Spanish 2A \(WL770A\)](#)
- [Advanced Spanish \(3/4\) A \(WL775A\)](#)

Career and Technical Education (CTE)

- [Employability Skills* \(II930\)](#) (Jeff Moore)
- [Computer Apps 1* \(BB765\)](#) (Beth Swaby)
- [Computer Apps 2* \(BB770\)](#) (Beth Swaby)
- [Computer Apps 3* \(BB775\)](#) (Beth Swaby)

*Indicates one semester class.

- [Computer Science Principles \(BB725\)](#) (Beth Swaby)
- [Cybersecurity \(BB840\)](#) (Beth Swaby) - ★NEW★
- [Web Programming I \(Beth Swaby\)](#) - (prerequisite: CSP BB725 or BB920)
- [AP Computer Science Principles \(BB920\)](#) (Beth Swaby)
- [Introduction to Education* \(HH840\)](#) (Emanuela Pokryfki)
- [Education Development and Psychology*](#) (HH845) (Emanuela Pokryfki)

Course Descriptions

Advanced Algebra A & B (MM735A & MM735B)

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The critical areas for this course, organized into four units.

Advanced Algebra A Topics Include: Review of Algebra, Systems of Equations and Inequalities, Factoring, Radical Expressions, Solving Quadratic Equations, Advanced Algebra B Topic Include:

Advanced Algebra B Topics Include: Polynomial Functions, Rational Expression, Exponents and Logarithms, sequences and Series.

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Alaska History* (TT730)

A comprehensive introduction into the geography, culture, and history of the state of Alaska. Key topics include how the state's physical geography affects human communities; the culture, traditions, and history of Alaskan Native communities; the history and influence of Russian colonization; key events in transforming the state after purchase; the statehood movement and resulting state constitution and government; and the economic and cultural landscape of modern Alaska. In addition the course focuses on developing critical thinking, research and presentation skills, and an understanding of historiography through a project based curriculum.

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Algebra I A & B (MM725A & MM725B)

Algebra I is the foundation! The skills you'll acquire in this course contain the basic knowledge you'll need for all your high school math courses. Relax! This stuff is important, but everyone can do it. Everyone can have a good time solving the hundreds of real-world problems that are answered with algebra.

Each module in this course is presented in a step-by-step way right on your computer screen. You won't have to stare at the board from the back of a classroom.

*Indicates one semester class.

This course is designed to give you the skills and strategies for solving all kinds of mathematical problems. It will also give you the confidence that you can handle everything that high school math has in store for you.

Algebra I A Includes: Integers, Distributive Property, Translations, Solving Equations, Word Problems, Inequalities, Slope, Parallel and Perpendicular Lines, Union and Intersection

Algebra I B Includes: System of Equations, Polynomials, Factoring, Quadratic Equations

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Biology A & B (SS710A and [SS710B](#))

This science course uses the Science Standards of Alaska to guide our three dimensional learning (scientific and engineering practices, crosscutting concepts, and disciplinary core ideas) about the life sciences. We explore, we play, we struggle, and together, we come to understand! Topics include small scale cellular activity and genetics, through to large scale patterns of heredity, evolution, and ecosystem change. Students choose hands-on labs, projects, discussions and more to help build their understanding of the core skills and concepts. Throughout the course students are asked to reflect on our impact and role as humans on this biodiverse planet. A semester of Biology A is followed by a semester of Biology B to complete the full year of high school life science study.

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Business Math* (MM727)

This is a semester course that places an emphasis on application of mathematical concepts in the business world. Topics include: small business, taxes, payroll, investing, capital, loss, assets, liabilities, basic accounting, licensing, government agencies and others.

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Calculus (MM750)

Students do best when they have an understanding of the conceptual underpinnings of Calculus. Building enduring mathematical understanding requires students to understand the why and how of mathematics in addition to mastering the necessary procedures and skills. To foster this deeper level of learning, Calculus is designed to develop mathematical knowledge conceptually, guiding students to connect topics and representations throughout each course and to apply strategies and techniques to accurately solve diverse types of problems. This Calculus course is roughly equivalent to a first semester college calculus course devoted to topics in limits and continuity, and differential and integral calculus, including applications and slope-fields. This calculus course includes the same content as the AP Calculus AB course but does not include a College Board AP Calculus Exam in May. The pacing guide allows students to work at a slower pace than the AP course in order to provide students a solid understanding of calculus topics.

Prerequisites for the course: Before studying calculus, all students should complete the equivalent of four years of secondary mathematics designed for college-bound students: courses which should prepare them with a strong foundation in reasoning with algebraic symbols and working with algebraic structures. Prospective calculus students should take courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric, and piecewise defined functions. In particular, before studying calculus, students must be familiar with

*Indicates one semester class.

the properties of functions, the composition of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, odd and even, periodic, symmetry, zeros, intercepts, and descriptors such as increasing and decreasing). Students should also know how the sine and cosine functions are defined from the unit circle and know the values of the trigonometric functions at the special angles and their multiples.

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AP Calculus AB (MM755)

This year-long course includes the same content as the Calculus course but culminates with a College Board AP Calculus Exam administered in early May. Students who score high enough on the exam may receive college credit. Check with the college to determine the score required to receive credit as it varies from college to college.

The pacing guide for this course recommends that students complete all content in the first three quarters of the year and begin studying for the exam during the fourth quarter.

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Computer Applications 1* (BB765)

Computer Applications is a self-paced course. You will focus on Google Docs, Windows 10, Computer Basics and Microsoft Word. You will need access to a windows based computer with the capacity to run the full Microsoft Office 2016 software package. The main focus of this course will be to prepare students to become Microsoft Certified in Word. To get an A in this course students must pass the Word Certification Exam. This course is offered dual credit with KPC for students that pass the certification exam.

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Computer Applications 2* (BB770)

Computer Applications 2 is a self-paced course. You will focus on Microsoft Excel and PowerPoint. You will need access to a windows based computer with the capacity to run the full Microsoft Office 2016 software package. The main focus of this course will be to prepare students to become Microsoft Certified in Excel and PowerPoint. To get an A in this course students must pass the Excel and PowerPoint Certification Exams. Upon successful completion of Computer Applications 1 and 2, up to 6 college credits can be earned.

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Computer Applications 3* (BB775)

Computer Applications 3 is a self-paced course. You will focus on Advanced Microsoft Word and Excel. You will need access to a windows based computer with the capacity to run the full Microsoft Office 2016 software package. The main focus of this course will be to prepare students to become Microsoft Certified in Advanced Word and Excel. To get an A in this course students must pass the Advanced Excel and Word Certification Exams. Upon successful completion of Computer Applications 1, 2 and 3 students may earn up to 5 additional college credits to those already earned in Comp 2.

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(AP) Computer Science Principles (BB725 & BB920)

Computer Science Principles is a year-long course that introduces students to the foundational

*Indicates one semester class.

concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. This course prepares students to take the AP CSP exam toward the end of the school year.

Prerequisite: Algebra

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Creative Writing (LL750A & LL750B)

This course, based on a writer's workshop model, is designed to get students working together to perfect their pieces and get them published. Students will critically read and analyze select exemplar texts and create their own works by following the writing process (including revising with peers--each student must stay on pace with coursework, as classmates will be depending on each other). By the end of the year, students will have portfolios they can be proud of, including pieces of poetry, short stories, creative nonfiction, flash fiction, plays, and screenplays. Because the course does include critical reading, writing, and speaking, any student in grades 10,11, or 12 should get a full English language arts credit for taking it. This course is not open to 9th grade students.

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Cybersecurity (BB840)

Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

Prerequisite: CSP (BB725 or BB920)

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Earth Science A & B (SS750A and SS750B)

This Earth Science Course uses the Science Standards of Alaska to guide our three dimensional learning (scientific and engineering practices, crosscutting concepts, and disciplinary core ideas) about Earth and Space science. We explore, we play, we struggle, and together, we come to understand! Topics include element creation in stars, the Big Bang Theory, Plate Tectonics Theory, geologic forces, natural resources, and climate modeling and prediction. Students choose hands-on labs, projects, discussions and more to help build their understanding of the core skills and concepts. Throughout the course students are asked to reflect on our impact and role as humans on this

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Employability Skills (II930)

Employability Skills is designed to be a self-paced course that you can work at your own speed. Each of the 210 interactive lessons from the 5 units is formatted in an easy-to-understand three-part structure: Overview, Learning and Practice. The Overview presents the main idea of the topic lesson

*Indicates one semester class.

and lists 10 tips for using the skill at work. Each tip is explained in more detail in the Learning section of the lesson. Finally, the Practice section provides an opportunity to answer True/False questions on the topic and respond to an activity question. This course has 2 parts 210 online lessons and 5 video writing assignments.

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Environmental Studies (SS740A and SS740B)

This environmental studies course explores current, complex, and controversial North American and international environmental issues through a case study approach. Students will explore topics such as ecology, environmental laws, energy, water, toxicology, waste management, soil and agriculture, global population, conservation and resource management, as well as a host of more local environmental issues related to natural resources (fishing, mining, timber, energy, etc.). Students will also explore and recognize various forms of bias through critical analysis in messaging and public policy. Specific case studies considered are: managing wildfire on public lands; balancing competing demands for water; managing predatory wildlife, especially wolves, cougars, and grizzlies; determining applications of genetically modified organisms; managing public forests; tackling human-caused climate change; assessing whaling and other mammal harvests; and analyzing International conflicts and controversies over marine protected areas. A primary goal of this course is to inspire students to be active and engaged in their local community and within the policy making arena.

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French 1 A & B (WL705A and WL705B)

The French courses offered by the Distance Learning Program use the Middlebury Interactive Language curriculum, which is the same online curriculum adopted district-wide for the World Languages Department of KPBSD.

The course is completely hosted on the KPBSD Learning Management System called Canvas (<https://kpbsd.instructure.com>) All activities and study material is available online. Students have the option of printing reference material and scripts of the audio segments of the course, implementing performance-based assessments at the end of each unit for measuring the acquisition progress of each student.

Students begin their introduction to French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of new vocabulary and grammar concepts, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages)

For a more detailed course description click on [French 1A](#) or [French 1B](#).

*Indicates one semester class.

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French 2 A & B (WL710A and WL710B)

The French courses offered by the Distance Learning Program use the Middlebury Interactive Language curriculum, which is the same online curriculum adopted district-wide for the World Languages Department of KPBSD.

The course is completely hosted on the KPBSD Learning Management System called Canvas (<https://kpbsd.instructure.com>) All activities and study material is available online. Students have the option of printing reference material and scripts of the audio segments of the course, implementing performance-based assessments at the end of each unit for measuring the acquisition progress of each student.

Students carry on their acquisition of French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of new vocabulary and grammar concepts, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

For a more detailed course description click on [French 2A](#) or [French 2B](#).

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Advanced French A & B (WL715A and WL715B)

The French courses offered by the Distance Learning Program use the Middlebury Interactive Language curriculum, which is the same online curriculum adopted district-wide for the World Languages Department of KPBSD.

The course is completely hosted on the KPBSD Learning Management System called Canvas (<https://kpbsd.instructure.com>) All activities and study material is available online. Students have the option of printing reference material and scripts of the audio segments of the course, implementing performance-based assessments at the end of each unit for measuring the acquisition progress of each student.

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities that teach students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and

*Indicates one semester class.

perspectives of various French-speaking countries, read and analyze important pieces of literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

For a more detailed course description click on [French 3/4A](#) or [French 3/4B](#).

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Geography A & B (TT745A and TT745B)

These courses examine a broad range of geographical perspectives covering all of the major regions of the world. Each region is reviewed in a similar structure in order for students to more clearly see the similarities and differences between each region. Specifically, the courses explore where each region is located along with its physical characteristics, including absolute and relative location, climate, and significant geographical features. The exploration then continues on to look at each region from a cultural, economic, and political perspective, closely examining the human impact on each region from these perspectives as well as how human activities impact the environments of the region.

Students engage in multi-media projects, writing assignments, online discussions, quizzes, and tests.

Geography A contains an introduction to geography unit and units on North America, Central America, South America, and Western Europe.

Geography B contains units on Eastern Europe, Eastern Asia, Southeast Asia and the Pacific, Africa, and India and the Middle East.

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Geometry A & B (MM730A & MM730B)

One day in 2580 B.C., a very serious architect stood on a dusty desert with a set of plans. His plans called for creating a structure 480 high, with a square base and triangular sides, using stone blocks weighing two tons each. The Pharaoh wanted the job done right. The better our architect understood geometry, the better were his chances for staying alive.

Geometry is everywhere, not just in pyramids. Engineers use geometry to bank highways and build bridges. Artists use geometry to create perspective in their paintings, and mapmakers help travelers find things using the points located on a geometric grid. Throughout this course, we'll take you on a mathematical highway illuminated by spatial relationships, reasoning, connections, and problem solving.

This course is all about points, lines and planes. Just as importantly, this course is about acquiring a basic tool for understanding and manipulating the real world around you.

Geometry A Includes: Basic Building Blocks of Geometry, Lines and Angles, Properties of Parallel Lines, Slope, Linear equations, Algebraic Proofs, Triangles, Pythagorean Theorem.

Geometry B Includes: Polygons and Quadrilaterals, Area, Surface Area, Volume, Circles, Tessellations

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Health* (JJ705)

*Indicates one semester class.

This course will help students develop the knowledge and skills they need to make healthy decisions that allow them to stay active, safe and informed. The lessons and activities are designed to introduce the student to important aspects of the main types of health: emotional and mental, social and consumer, and physical. Among other topics, students will explore nutrition, understanding and avoiding disease, first aid and CPR, and human sexuality. Students will find out about the components of a healthy lifestyle and ways to approach making healthy choices and decisions.

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Introduction to Art* (AA705)

This course will include the basic elements and principles of art while developing fundamental skills. It will be an overview of two and three-dimensional art, art history, and criticism.

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Introduction to Education* (HH840)

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

For a more detailed course description click on [the course overview](#).

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Education Development and Psychology* (HH845)

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

For a more detailed course description click on [the course overview](#).

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Italian 1 A & B (WL795A and WL795B)

Students receive a thorough grounding in the basics of the Italian language in this introductory, two-semester course.

In this course, students will first begin to develop aural and oral skills, then read and write what they can say familiar words, commands, phrases, short sentences, and basic questions. They will learn to use predictable language in familiar settings. They will start to develop cultural awareness and the ability to recognize the products, practices and perspectives of the culture. They will also use the language to expand their knowledge in all content areas.

The Italian courses offered by Distance Learning Program incorporate the audio-visual exposure to the language offered by lessons, written exercises, quizzes, and tests developed for supporting and reinforcing the students' language acquisition.

*Indicates one semester class.

Meaningful cultural aspects are presented and discussed in classroom discussion boards, in which students have the opportunity to increase their awareness of the social value of the language they are studying, sharing their considerations with the rest of the class.

The importance of the reading activity in the process of acquisition of a second language has been supported by extensive academic studies, and for this reason, this course offers students the opportunity to read simple novels in the target language.

Students will also have the opportunity to practice their language skills “live” web conferences with other students and their instructor during the school year.

For a more detailed course description click on [Italian 1A](#) or [Italian 1B](#).

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Italian 2 A & B (WL795A and WL795B)

Students receive a thorough grounding in the basics of the Italian language in this introductory, two-semester course.

In this course, students will first begin to develop aural and oral skills, then read and write what they can say familiar words, commands, phrases, short sentences, and basic questions. They will learn to use predictable language in familiar settings. They will start to develop cultural awareness and the ability to recognize the products, practices and perspectives of the culture. They will also use the language to expand their knowledge in all content areas.

The Italian courses offered by Distance Learning Program incorporate the audio-visual exposure to the language offered by lessons, written exercises, quizzes, and tests developed for supporting and reinforcing the students’ language acquisition.

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Students will also have the opportunity to practice their language skills “live” web conferences with other students and their instructor during the school year.

For a more detailed course description click on [Italian 2A](#) or [Italian 2B](#).

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Keyboarding* (BB705)

Keyboarding is an introductory course that gives students the opportunity to gain an overview of the operation of the computer and word-processing software. In addition, proper keyboarding proficiency skills will be a primary focus for the course.

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AP Language and Composition (LL795A and LL795B)

Advanced Placement Language and Composition is a college-level course designed to prepare you for the reading and writing demanded in college; additionally, the course will prepare you for the AP Language and Composition Exam. More specifically, the reading will span a breadth of rhetorical

*Indicates one semester class.

modes and time periods, concentrating on expository, analytical, personal and argumentative texts. Though we will read vastly, the impetus will be more upon reading with depth, with precision, with insight, and with an analytical eye. Furthermore, we will write extensively about the texts we read and in the style of the texts we read. Though what you have to say is crucial, we will devote significant attention to how you present your ideas in writing and other forms of communication. Notably, we will concentrate on purpose and audience, using evidence, developing appeals, and the powerful use of language-syntax, word choice and tone. In other words, we will immerse ourselves in reading challenging non-fiction texts, analyzing the power of ideas and language, and creating purposeful, well-crafted pieces of prose.

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Language Arts 9A & 9B (LL705A and LL705B)

This highly-personalized course guides students through classic pieces of literature (short fiction, nonfiction, poetry, drama, and novels) while also giving choice as to what students will read, what they will write about, and how they might be assessed on their learning. Apart from literary analysis, students will study language and vocabulary, speaking/presenting, and writing essays (expository and persuasive), narratives, and research papers. Students will also collaborate in discussions and in peer revision activities.

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Language Arts 10A & 10B (LL710A and LL710B)

This online ELA 10 course focuses on building reading and writing skills using the best literature from around the world, including more modern pieces and genres (such as magical realism and science fiction). Students will also write critically, research, present, and collaborate with their classmates as they discuss global social and historical issues. Student choice is built into all writing topics and many of the readings. This is a newly-designed course to be offered for the first time in Fall 2023.

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Language Arts 11A & 11B (LL715A and LL715B)

“Extra, extra, read all about it!” It’s all right here in black and white, in the pages of The Virtual Times newspaper. Published at key periods in American history, The Virtual Times takes us right into the action. The writing is clear and concise. The stories and opinions give us perspective. The sports and entertainment sections give us the color and flavor of the times.

In Language Arts 11, the writing and insights of authors throughout our history are collected in the fast-paced pages of The Virtual Times. Students gain an appreciation of American literature and the ways it reflects the times in which it was written. They discover how people thought and lived and wrote about their experiences. Students are also asked to observe, investigate, and report on stories of today. The goal is for students to be thorough, accurate, and compelling in their writing.

Each unit, or “module,” contains (mainly short) writing assignments, vocabulary studies, and quizzes.

Language Arts 11A covers Puritan New England through the Civil War.

Language Arts 11B covers Reconstruction through the 1960s.

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Language Arts 12A & 12B (LL790A and LL790B)

*Indicates one semester class.

Students explore the world of big ideas in Language Arts 12, where they experience highly engaging thematic units. Each path guides students through a series of literary pieces, allowing students to analyze the political, social, economic, and cultural messages of the time as well as the relevance of the literary works to the world students live in today.

Each path revolves around a central theme. The works in the course span a period of over 1000 years and have been written by authors who share common ideas but use a variety of literary genres to express their views. Whether it is the dramatic ending of a play or the colorful images in a verse of poetry, the words of these authors give students a new understanding of the world around them.

As students travel down each path, they create authentic pieces that engage them in higher-level learning and provide them with a greater understanding of literature and its connection to the world.

Language Arts 12A surveys British literature from Beowulf to Shakespeare's sonnets and then leaps into the early twentieth century with Pygmalion.

Language Arts 12B focuses on two Shakespeare plays, Much Ado about Nothing and Macbeth but also samples thematically related literature, including poetry, from other eras and locations.

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Personal Finance* (MM760)

This course places emphasis on personal finance, which includes math-related topics such as: budgeting income, income tax, loans, investments, production, purchasing, sales, distribution, marketing, and accounting.

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Physics (SS780A and SS780B)

This first year physics course bridges AP physics with basic high school physics. Students will explore concepts such as kinematics, dynamics, laws of conservation, circular motion, gravity, rotation, oscillations, waves & sound, electricity, circuits, and nuclear physics. Students will explore these topics in a distance-delivered format through video, reading, discussions, collaboration, projects and hands on home-lab activities.

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Movement/Activity* (PP720)

This course is designed to offer a variety of physical activities for students who desire to increase strength, agility and endurance. This course encourages lifetime personal fitness through dance, movement and/or aerobic activities.

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Music Appreciation* (UU755)

This course is open to all students. Music will be examined in a variety of contexts: music fundamentals, music history, exposure to musical instruments, listening, and basic composition. It is designed to excite and challenge beginners, hobbyists, as well as seasoned performers.

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Music Theory* (UU760)

*Indicates one semester class.

This course is open to all students who have completed Music Appreciation, or by instructor approval. Students will examine music in depth through analysis, composition, and performance application. Analytical knowledge of music may be directly applied in instrumental and vocal performance, composition, and music production.

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Physical Science A & B (SS755A and SS755B)

This Physical Science Course uses the Science Standards of Alaska to guide our three dimensional learning (scientific and engineering practices, crosscutting concepts, and disciplinary core ideas) about the basics of physics and chemistry. We explore, we play, we struggle, and together, we come to understand! Students construct models to explain phenomena experienced by the group, and build their understanding through a variety of hands-on, virtual simulation and research tasks. Topics include forces, elements, chemical reactions, energy, and technology. Throughout the course students are asked to reflect on our impact and role as humans on this amazing planet. A semester of Physical Science A is followed by a semester of Physical Science B to complete the full year of high school foundational basic physics and chemistry study.

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Pre-Calculus (MM745A)

This course is designed to go through the major topics of Pre-Calculus and to prepare students to move on to Calculus. After completing this course, students will understand polynomial functions, polar coordinates, complex numbers, conic sections, exponential functions, logarithmic functions, sequences and series.

After completing the course, the student will be able to:

1. Understand the major topics in Pre-Calculus.
2. Identify how the major Pre-Calculus topics relate to real world situations.
3. Apply the topics in Pre-Calculus to various problems.
4. Explain how Pre-Calculus is used within the greater context of mathematics.

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Spanish 1A and 1B (WL765A & WL765B)

This course is designed for students enrolled in grades 9-12 and it is classified as Elective.

This is a proficiency-based course.

The Spanish courses offered by the Distance Learning Program use the Middlebury Interactive Language curriculum, which is the same online curriculum adopted district-wide for the World Languages Department of KPBSD.

The course is completely hosted on the KPBSD Learning Management System called Canvas (<https://kpbsd.instructure.com>) All activities and study material is available online. Students have the option of printing reference material and scripts of the audio segments of the course, implementing performance-based assessments at the end of each unit for measuring the acquisition progress of each student.

Students begin their introduction to Spanish by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar

*Indicates one semester class.

concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

For a more detailed course description click on [Spanish 1A](#) or [Spanish 1B](#).

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Spanish 2A and 2B (WL770A & WL770B)

This course is designed for students enrolled in grades 9-12 and it is classified as Elective.

This is a proficiency-based course.

The Spanish courses offered by the Distance Learning Program use the Middlebury Interactive Language curriculum, which is the same online curriculum adopted district-wide for the World Languages Department of KPBSD.

The course is completely hosted on the KPBSD Learning Management System called Canvas (<https://kpbsd.instructure.com>) All activities and study material is available online. Students have the option of printing reference material and scripts of the audio segments of the course, implementing performance-based assessments at the end of each unit for measuring the acquisition progress of each student.

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar.

There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged

in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by the ACTFL (the American Council on the Teaching of Foreign Languages)

For a more detailed course description click on [Spanish 2A](#) or [Spanish 2B](#).

*Indicates one semester class.

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Advanced Spanish A and B (WL775A & WL775B)

This course is designed for students enrolled in grades 9-12 and it is classified as Elective.

This is a proficiency-based course.

The Spanish courses offered by the Distance Learning Program use the Middlebury Interactive Language curriculum, which is the same online curriculum adopted district-wide for the World Languages Department of KPBSD.

The course is completely hosted on the KPBSD Learning Management System called Canvas (<https://kpbsd.instructure.com>) All activities and study material is available online. Students have the option of printing reference material and scripts of the audio segments of the course, implementing performance-based assessments at the end of each unit for measuring the acquisition progress of each student.

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities that teach students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

For a more detailed course description click on [Spanish 3/4A](#), [Spanish 3/4B](#).

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Trigonometry (MM745B)

This course introduces students to the concepts of trigonometry. Students will learn about the basic trigonometric functions and how to graph these functions. Students will learn how to solve right triangles and how to use the Law of Sines and Law of Cosines. Students will also link these concepts to real world applications.

After completing the course, the student will be able to:

1. Identify properties of and perform operations on polynomials and rational functions.
2. Analyze graphs, determine inverse functions, and solve systems of inequalities.
3. Graph, analyze, and apply trigonometric functions.
4. Identify and apply trigonometric identities to solve equations and inequalities.

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U.S. Government* (TT720)

This course is a comprehensive exploration of the government of our nation, centered around a

*Indicates one semester class.

project based curriculum designed to foster critical thinking and problem-solving, develop inquiry-based research skills, and establish real-world connections. Key topics include the historical foundations of American democracy; the power, roles, and functioning of the institutions of government; important political processes such as elections, parties, and political socialization; and civil rights and liberties. A primary goal of the course is for students to become educated and savvy citizens, who not only understand how government works, but who also have the knowledge and skills to actively participate in shaping the government for the betterment of themselves and their communities.

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U.S. History (TT710)

The eleventh-grade program is a comprehensive, integrated course in United States history from the Civil-War Era to the present. This course is organized chronologically but may be taught thematically, and is intended to serve as a capstone for U.S. History studies in the elementary and secondary schools. In-depth, student-centered exploration of issues relevant to historical inquiry and methodology will be emphasized.

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Web Programming (BB900 & BB 905)

Web Programming uses responsive, mobile-first design principles to create accessible, cross-device, commercially-oriented web sites using current versions of Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS).

This course is taught in conjunction with Prince William Sound College and students are eligible for 3.0 credits with UAA/PWSC upon successful completion of both BB900 and BB905.

Prerequisite: CSP (BB725) or AP CSP (BB920)

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World History (TT705A & TT705B)

A comprehensive introduction to world history from the beginning of human history to modern times. Students will examine the significant cultural, political, and economic trends and events that have occurred across world regions. Special topics of focus include examining the nature and process of forming historical knowledge and interpretation; exploring the historical patterns and themes which span across time and place; and the essential role of history in understanding our contemporary world.

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AP World History (TT706A & TT706B)

AP World History is an introductory college-level course. The course provides a survey of world history from 1200 C E to the present with an emphasis upon making historical connections, examining historical comparisons and contrasts, exploring historical continuity and change over time, and developing historical arguments. We will focus on historical thinking skills: developments and processes, sourcing and situation, claims and evidence in sources, contextualization, making connections, and argumentation. Historical themes create continuity and focus as well: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organizations, and technology and innovation.

*Indicates one semester class.

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*Indicates one semester class.