The courses in this catalog are also found on the Virtual Learning Academy Charter School (VLACS) website (www.vlacs.org). Students should review course selection and completion of prerequisites. Online courses must be approved by the Director of College and Career Readiness in order for the credit to transfer to your high school transcript. All exams must be proctored by the online coordinator or approved faculty member.

The website will include the most up to date course information. Courses are frequently added to the VLACS catalog, including dual enrollment courses offered by Southern New Hampshire University (SNHU) and the Community College System of New Hampshire (CCSNH-eStart). Refer to pages 3 and 4 of this catalog for the list of high school and dual credit courses.

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*Honors Option Available*
### Dual Credit Course List

The Virtual Learning Academy Charter School (VLACS) offers a variety of dual enrollment courses at reduced tuition rates for high school and college credit. VLACS offers courses through the Community College System of New Hampshire’s (CCSNH) eStart program and through Southern New Hampshire University (SNHU). Courses below are from the 2018-2019 course catalog. Please refer to the VLACS website ([www.vlacs.org](http://www.vlacs.org)) for updated courses and descriptions.

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ARTS/VISUAL ARTS

Art in World Cultures
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Who is the greatest artist of all time? Is it Leonardo daVinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? You will learn about some of the greatest artists while also creating art of your own, including digital art. We will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

Digital Imaging (ICT)
Credits: .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: This is the perfect course for anyone who wants to create compelling, professional looking graphic designs and photos. You’ll learn the basics of composition, color, and layout before moving on to technical topics like working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. At the end of this course, you’ll have created a variety of original projects for your graphic design portfolio.

Students Materials/System Requirements: Access to a Digital Camera capable of connecting to a PC and GIMP (A link to the free installation files is included within the course.) **GIMP is not compatible with Chromebooks.**
This course is one of our Career Exploration offerings.

Digital Arts 1 (ICT)
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: In this exploratory course, you’ll learn the elements of design, as well as foundational concepts of visual communication. While surveying a variety of media and art, you’ll use Inkscape, a popular digital art program, to put into practice what you’ve learned. Discover career opportunities in the design, production, display, and presentation of digital artwork. Respond to the artwork of others, and learn how to combine artistic elements to create finished pieces that effectively communicate your ideas.

Digital Photography 1 (ICT)
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: This is a projects course. Students will demonstrate an understanding of the various types of photography including the photography of people, places, things, action/movement, documentary and editorial images by composing and producing their own photographs.
Digital Photography 1a
Credits .5
Estimated Completion Time 1 segment/19 weeks
Overview: Have you ever wondered how photographers take such great pictures? Have you tried to take photographs and wondered why they didn’t seem to capture that moment that you saw with your eyes? The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions.

Digital Photography 1b
Credits .5
Estimated Completion Time 1 segment/19 weeks
Overview: Do you enjoy taking photos? Do you want to learn new techniques for capturing people, landscapes, and animal photographs? In this course, students will use basic techniques of composition and camera functions to build a portfolio of images that includes black and white, portrait, documentary, landscape, and macro photography.

Digital Photography 2 (ICT)
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: In today’s world, photographs are all around us, including in advertisements, on websites, and hung on our walls as art. Many of the images that we see have been created by professional photographers. In this course, we will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye catching photograph. The course material may be completed with a point-and-shoot camera or a camera on a cell phone. A point-and-shoot camera is preferable, as some techniques discussed utilize features that require an additional app on the cell phone. Instructors will work with students to help find the appropriate app for the camera phone or modify the assignment as needed.

Music Appreciation
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

Theater, Cinema & Film Production
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: Lights! Camera! Action! This course will introduce students to the basics of film and theater productions. Students will learn about the basics of lighting, sound, wardrobe, and camerawork for both film and theater settings. The course also explores the history of film and theater and the influence that they have had on society. Students will analyze and critique three influential American films, Casablanca, Singin’ in the Rain, and The Wizard of Oz.
Advertising and Sales
Credits .5
Estimated Completion Time 1 segments/16-18 weeks
Overview: What comes to mind when you think of marketing? Does a favorite commercial jingle begin to play in your head? Or do you recall the irritating phone call from a company trying to sell you software you already have? No matter what your feelings are about it, there’s no denying the sheer magnitude of the marketing industry. Every year companies spend $200 billion promoting their products and services—and that’s in the United States alone! Experts estimate that by the time you turn 65, you will have seen nearly 2 million TV commercials, not to mention radio ads, billboards, and online advertisements. You’re familiar with what it’s like on the receiving end of a company’s marketing efforts, but what’s it like on the other side? In this Advertising and Sales Promotions course, you’ll learn how marketing campaigns, ads, and commercials are conceived and brought to life. You’ll meet some of the creative men and women who produce those memorable ads and commercials. And you’ll discover career opportunities in the field to help you decide if a job in this exciting, fast-paced industry is in your future!

Computing for College and Careers (ICT)
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: “What can you do for us?” You’re applying for a job, and you really need a good answer to that question. After completing this course, you will have a complete package of marketable skills that will make you a highly attractive job candidate. Can you use business-related computer software? Can you communicate effectively with your boss and coworkers? Can you look and sound like a valuable asset to your employer? Do you know what you are really good at? Being able to answer “yes!” to these and many other questions is the essential foundation for your career. The purpose of this course is to guide you in building your career foundation. You will learn how to turn your computer into an effective tool for communication. You will learn how to create positive working relationships. And you will acquire the kinds of essential business skills needed for any successful career. Productive employees need both technology and people skills. Find both here in Computing for College and Careers.

Entrepreneurship
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Do you dream of owning your own business? This course can give you a head start in learning about what you’ll need to own and operate a successful business. Students will explore creating a business plan, financing a business, and pricing products and services.

Hospitality and Tourism
Credits .5
Estimated Completion Time 1 segment/19 weeks
Overview: With greater disposable income and more opportunities for business travel, people are traversing the globe in growing numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world. This course will introduce students to the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Student will learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

Personal and Family Finance (ICT)
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: How do our personal financial habits affect our financial future? How can we make smart decisions with our money in the areas of saving, spending, and investing? This course introduces students to basic financial habits such as setting financial goals, budgeting, and creating financial plans. Students will learn more about topics such as taxation, financial institutions, credit, and money management. The course also addresses how occupations...
and educational choices can influence personal financial planning, and how individuals can protect themselves from identity theft.

**Restaurant Management**

**Credits .5**

**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** Did you know that there are over one million restaurant locations in the United States alone? Whether you are interested in managing a fine, 5-star restaurant in a big city or a small, family owned diner, a career in restaurant management can be interesting, challenging, and rewarding. In this unit, you’ll learn about the four key goals of restaurant management: customer satisfaction, making a profit, staffing, and logistics. From customer satisfaction to managing supplies, restaurant management is a juggling act. You need to keep everyone happy and make money to make your restaurant a success. To be successful, your restaurant needs to turn a profit, so you’ll also learn how to track inventory and manage money in the restaurant industry.

**Sports Marketing**

**Credits .5**

**Estimated Completion Time 1 segment/18 weeks**

**Overview:** Have you ever wished to play sports professionally? Have you dreamed of one day becoming an agent for a celebrity entertainer? If you answered yes to either question, then believe it or not, you’ve been fantasizing about entering the exciting world of sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, you’ll have the opportunity to explore basic marketing principles and delve deeper into the multi-billion dollar sports and entertainment marketing industry. You’ll learn about how professional athletes, sports teams, and well known entertainers are marketed as commodities and how some of them become billionaires as a result. If you’ve ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, then this course will introduce you to the fundamentals of such a career.

**CAREER EXPLORATION**

**Career Exploration**

**Credits 1**

**Overview:** The Career Exploration Experience allows students to demonstrate mastery of competencies related to a specific workplace and/or career. Students select competencies from this grouping based on what they hope to learn from this particular Experience. Mastery of Career Exploration competencies will provide students with an understanding of aspects and situations related to a workplace and/or career. To meet competencies within this group, students will be required to interact with staff in one or more workplaces as part of their research and/or practice. *Please note: Full-time VLACS students who are meeting the Dual Credit/Career Exploration graduation requirement through the Career Exploration Experience should select all competencies from the Career Exploration Experience grouping when enrolling.*

**COMPUTER SCIENCE**

**3D Modeling (ICT)**

**Credits .5**

**Estimated Completion Time 1 segment/18 weeks**

**Overview:** Are you interested in a career in technology? Are you curious about working in fields like virtual reality, video game design, marketing, television and motion pictures, or digital imaging? If so, this course in 3D Modeling is a great place to start as it is the foundation for all these career paths. Gain a deeper understanding of graphic design and illustration as you use 3D animation software to create virtual three-dimensional design projects. Hone in on your drawing, photography, and 3D construction techniques and develop the skills needed to navigate within a 3D digital modeling workspace. This course is an excellent introduction to careers in the fast-growing field of technology and design.
Animation (ICT)
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: Are you inherently creative? Do you have an eye for drawing, technology, and timing? If so, 2D Animation is the course for you! 2D animation creates movement in a two-dimensional artistic space. And in this course, you will learn the necessary skills to do just that. 2D Animation will give you the tools to conceptualize and bring your animation dreams to life! Using a variety of software and design programs, you’ll have the power to transform your creative notions into reality! Design, define, and complete a variety of digital design projects including creating your own website! Learning about 2D Animation could lead to a thriving career in the growing world of technology and animation!

Creative Coding 1 (ICT)
Credits .25
Estimated Completion Time 1 segment/10 weeks
Overview: In Creative Coding 1, students learn the fundamental concepts of computer science and the basics of JavaScript programming. In the course, students use code to enhance and personalize visual media while learning about programmer culture. Through completing various creative projects, students gain mastery of programming and problem-solving skills applicable across disciplines. Since the course has students use these concepts to create works of digital media, an essential part of the course is its discussion of how digital media impacts culture and the relation between creating versus consuming media. Students learn the syntax for creating and calling functions, as well as for creating instances of objects and accessing their properties and methods. Students also learn to create simple loops to repeat code and use conditionals to add complexity to their programs.

Creative Coding 2 (ICT)
Credits .25
Estimated Completion Time 1 segment/10 weeks
Overview: In Creative Coding 1 you used loops to repeat code and make things on the screen change over time. Now you’re ready to level up your skills and make your videos change based on things that you do with the mouse or keyboard.

Cybersecurity 1a
Credits .5
Estimated Completion Time 1 segment/19 weeks
Overview: We depend more and more on the technologies we interact with every day, and we put more and more of our personal data out there online. Can all of that data really be kept “secret”? We all need to know more about how to protect our personal information, especially given how much we rely on and use our network devices and media. You’ll learn about the various parts of your computer, how they work together, and how you can manipulate them to keep your data safe. You’ll also dive into the tools, technologies, and methods that will help protect you from an attack and discover the many opportunities in the rapidly growing field of cybersecurity.

Cybersecurity 1b
Credits .5
Estimated Completion Time 1 segment/19 weeks
Overview: Ever wonder what it’s like to be a hacker? Or think about who is trying to steal your passwords while you’re shopping online using the free Wi-Fi at your local coffee shop? Unmask the cybersecurity threats around you by understanding hackers and identifying weaknesses in your online behavior. Learn to avoid the various types of cyber attacks, including those to your social media accounts, and to predict the potential legal consequences of sharing or accessing information that you do not have rights to. Dig into these crimes in depth by taking a look at cyber forensics and other cybersecurity careers. In a world where such threats have no boundaries, cybersecurity will undoubtedly play an increasingly larger role in our personal and professional lives in the years to come.
FIRST Programming Experience  
Credits .5  
Estimated Completion Time 1 segments/19 weeks  
Overview: Are you participating in the FIRST Robotics Competition or the FIRST Tech Challenge and would like to earn credit for your learning? Then you have come to the right place! This experience is designed for students working on the programming component of either of the FIRST Robotics or Tech Challenge to demonstrate mastery of key programming concepts and skills and earn a half technology elective credit. The VLACS Experience is designed in collaboration with FIRST to allow students to build off of what they are learning as a FIRST participant and utilize the products that are produced through FIRST to demonstrate mastery of programming competencies. (This experience is consistent with NH ICT requirements.)

Foundations of Programming (ICT)  
Credits 1  
Estimated Completion Time 2 segments/32-36 weeks  
Overview: Do you want to learn the skills required to be competitive in today’s high tech workforce? Foundations of Programming (FoP) will teach students the fundamentals of programming using the computer language Python. The course provides students with the concepts, techniques, and processes associated with computer programming and software development. Students will also explore the many programming career opportunities available in this high-demand field. This course is part of a program of study that provides coherent and rigorous content needed for progression in the Information Technology career cluster.

Game Design 1a (ICT)  
Credits .5  
Estimated Completion Time 1 segment/19 weeks  
Overview: Are you a gamer? Do you enjoy playing video games or coding? Does the idea of creating and designing your own virtual world excite you? If so, this is the course for you! Tap into your creative and technical skills as you learn about the many aspects involved with designing video games. You will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and even the history of gaming. And to top it all off, you’ll even have the opportunity to create your very own plan for a 2D video game! Turn your hobby into a potential career and go from simply being a player in a virtual world to actually creating one!

Social Media (ICT)  
Credits .5  
Estimated Completion Time 1 segment/18 weeks  
Overview: Have a Facebook account? What about Twitter? Whether you’ve already dipped your toes in the waters of social media or are still standing on the shore wondering what to make of it all, learning how to interact on various social media platforms is crucial in order to survive and thrive in this age of digital communication. In this course, you’ll learn the ins and outs of social media platforms such as Facebook, Twitter, Pinterest, Snapchat, and more. You’ll also discover other types of social media you may not have been aware of and how to use them for your benefit—personally, academically, and eventually professionally as well. If you thought social media platforms were just a place to keep track of friends and share personal photos, this course will show you how to use these resources in much more powerful ways.

Web Design 1 (ICT)  
Credits 1  
Estimated Completion Time 2 segments/36 weeks  
Overview: In this course, you’ll become a Web Design Intern for a virtual company called Education Designs. Your instructor is also called your team leader. You’ll learn what goes on under the hood including: Internet basics, HTML, and the file structure of a well-organized web site. You’ll learn how to create visually interesting web pages with clear text, complimentary colors, visual assets, and appealing designs. You’ll also learn how to navigate the Internet to fill your web site with useful and well-researched information. Your web pages will have to be good because they may appear as information sources for other online courses. The Internet can be a powerful way to reach anyone, anywhere – as long as you have the right skills and a little imagination. This course is one of our Career Exploration offerings.
**Creative Writing**  
Credits .5  
**Estimated Completion Time** 1 segment/16-18 weeks  
**Overview:** For many hundreds of years, literature has been one of the most important human art forms. It allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of material reality. Through creative writing, we can come to understand ourselves and our world a little bit better. This course provides students with a solid grounding in the writing process, from finding inspiration to building a basic story to using complicated literary techniques and creating strange hybrid forms of poetic prose and prose poetry. By the end of this course, students will learn how to discover their creative thoughts and turn those ideas into fully realized pieces of creative writing.

**English 1 (Honors Option Available)**  
Credits 1  
**Estimated Completion Time** 2 segments/32-36 weeks  
**Overview:** In English 1, students take a journey through important concepts—the Unknown, Equality, Identity, Opportunity, and Understanding—to learn the foundations of communication and analysis. In each unit of the course, students explore a variety of STEM-related literature, including genre fiction, poetry, non-fiction, and speeches. Through the study of this writing, students hone their own skills in communication and analysis. To facilitate engagement and academic responsibility, students are encouraged to make choices at different points in the course. Most notable is the novel unit, in which students must select their book from a list of titles available. This practice gives ownership to the student and places each learner in a position to develop a deeper appreciation of reading.

**English 2 (Honors Option Available)**  
Credits 1  
**Estimated Completion Time** 2 segments/32-36 weeks  
**Overview:** In English 2, students learn how the human experience—real life—is the foundation of the best stories, plays, poems, films, and articles. In each unit of the course, students explore a specific aspect of the human experience such as laughter, obstacles, betrayal, fear, and transformation. Through the study of literature, nonfiction, and life, students explore what it means to be human, what it means to be fulfilled, triumphant, empowered, and transformed. As in life, students have many choices in the English 2 course. They choose the order in which they complete the units. Students also choose some of the works they read and have countless choices when it comes to demonstrating what they have learned. Whether reading a poem or a novel, writing a story or an analysis, or studying a Shakespearean tragedy or a modern suspense film, students explore what it means to be human, a subject on which they are already experts!

**English 3 (Honors Option Available)**  
Credits 1  
**Estimated Completion Time** 2 segments/32-36 weeks  
**Overview:** In this course, students will acquire the language, reading, writing, and speaking/listening skills necessary for success in college, career, and beyond. Students will become critical readers and thinkers as they dive deeply into the texts presented throughout this course. Students will learn how to effectively research and integrate their findings, as well as cite their sources.

**English 4 (Honors Option Available)**  
Credits 1  
**Estimated Completion Time** 2 segments/32-36 weeks  
**Overview:** Why do people do what they do? English IV you will give you a front row seat to study of the motives that have driven people’s actions for centuries. Along the way you will encounter epic heroes defying danger, tormented minds succumbing to the power of greed and ambition, enlightened thinkers striving for individual rights and freedoms, sensitive souls attempting to capture human emotion, and determined debaters taking a stand on critical issues. You will read to analyze the way language is used to express human motivation and research to examine the
results of actions in the real world. The lessons in each module will give you the tools you need to gain insights from what you read and to use your knowledge in creative and analytical writing.

**English Topics**  
**Credits 0**  
**Estimated Completion Time** yearlong  
**Overview:** English Topics is designed to help students meet basic college entrance requirements. This program integrates and reinforces the standard developmental English curriculum – reading comprehension, writing, vocabulary building, and grammar skills – to prepare student for credit-bearing courses at a college level. English Topics provides a series of English competencies for students to select from based on their needs or students may take a pre-test to determine if they would best be served by taking the entire course or only the second segment of the course. Students may enroll in individual competencies or earn English elective credit by completing one or both segments of the course. English Topics is not a replacement for English 1, English 2, English 3 or English 4, which satisfy graduation requirements. Students work with a certified VLACS English teacher throughout the course. The teacher coaches the student through the course by completing a Welcome Call at the beginning of the course, monitoring student progress, providing feedback on written work, identifying areas of struggle, meeting regularly with the student, and completing monthly calls with the student and parent.

**Gothic Literature**  
**Credits .5**  
**Estimated Completion Time** 1 segment/16-18 weeks  
**Overview:** From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

**Journalism 1**  
**Credits 1**  
**Estimated Completion Time** 2 segments/32-36 weeks  
**Overview:** Journalism 1 provides students with the fundamental basics of journalism. Students begin by exploring the history of American journalism, examining different media such as print, radio, television, and internet journalism. Students learn how to write a news story, feature story, and editorial with a focus on research, analyzing the reliability of sources, conducting interviews, writing leads, revising, and self-editing. Students will also take a close look at different careers in journalism, ethics in journalism, and visual layouts using technology, including web 2.0 tools.

**Lord of the Rings**  
**Credits .5**  
**Estimated Completion Time** 1 segment/16-18 weeks  
**Overview:** *The Lord of the Rings* is one of the most popular stories in the modern world. In this course, you will study the movie versions of J.R.R. Tolkien’s novel and learn about the process of converting literature to film. You will explore fantasy literature as a genre and critique the three Lord of the Rings films.

**Mythology and Folklore**  
**Credits .5**  
**Estimated Completion Time** 1 segment/16-18 weeks  
**Overview:** Mighty heroes. Angry gods and goddesses. Cunning animals. Mythology and folklore have been used since the first people gathered around the fire as a way to make sense of humankind and our world. This course focuses on the many myths and legends woven into cultures around the world. Starting with an overview of mythology and the many kinds of folklore, the student will journey with ancient heroes as they slay dragons and outwit the gods, follow fearless warrior women into battle and watch as clever animals outwit those stronger than themselves. They will explore the universality and social significance of myths and folklore, and see how they are still used to shape society today.
Public Speaking
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: The art of public speaking is one which underpins the very foundations of Western society. This course examines those foundations in both Aristotle and Cicero’s views of rhetoric, and then traces those foundations into the modern world. Students will learn not just the theory, but also the practice of effective public speaking, including how to analyze the speeches of others, build a strong argument, and speak with confidence and flair. By the end of this course, students will know exactly what makes a truly successful speech and will be able to put that knowledge to practical use.

Reading for College Success
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: How will reading impact your future? How does reading shape the world around us? This course will help you answer that question and prepare you for college and career success. Reading is a vital skill in the information age where we are constantly bombarded with a stream of information. Being able to determine and comprehend the main idea in this constant flow is imperative to success in both the academic world, and in the world of work. Discerning fact from opinion and bias from objectivity will empower you to make better life and work decisions and effective note taking and summarizing will help you achieve your goals in higher education and in the career of your choosing. This course will provide you with the necessary tools to be an active member of a 21st century world where success in reading often equates with success in life.

Reading and Writing for a Purpose
Credits .5
Estimated Completion Time 1 segment/19 weeks
Overview: This course will introduce you to useful, real-world information by learning to read legal, insurance, employment, and vehicle related documents. You will also explore media bias, trends in journalism, word structures, and research strategies while developing critical reading skills, outline building skills, and identifying good sources of information. This course builds life and study skills, setting you up for success as an adult and post-secondary preparation.

FAMILY & CONSUMER SCIENCES

Early Childhood Education
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Want to have an impact on the most important years of human development? Students will learn how to create fun and educational environments for children, how to keep the environment safe for children, and how to encourage the health and well-being of infants, toddlers, and school-aged children.

Fashion and Interior Design
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Do you have a flair for fashion? Are you constantly redecorating your room? If so, the design industry might just be for you! In this course, you’ll explore what it is like to work in the industry by exploring career possibilities and the background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects. In addition, you’ll develop the essential communication skills that build success in any business. By the end of the course, you’ll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field. Access to a sewing machine is highly recommended.
Introduction to Culinary Arts
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Food is fundamental to life. Not only does it feed our bodies, but it’s often the centerpiece for family gatherings and social functions with friends. In this course, you will learn all about food including food culture, food history, food safety, and current food trends. You’ll also learn about the food service industry and try your hand at preparing some culinary delights. Through hands-on activities and in-depth study of the culinary arts field, this course will help you hone your cooking skills and give you the opportunity to explore careers in this exciting industry.

Real World Parenting
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: The process of parenting is more than just having a child and making sure they eat, sleep and get to school on time. Learn what to prepare for, what to expect, and what vital steps a parent can take to create the best environment and life for their child. Parenting roles and responsibilities; nurturing and protective environments for children; positive parenting strategies and effective communication in parent/child relationships are some of the topics covered in this course.

HEALTH & PHYSICAL EDUCATION

Drugs & Alcohol
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: This course delves into the types and effects of drugs, including alcohol, tobacco, steroids, over the counter drugs, marijuana, barbiturates, stimulants, narcotics, and hallucinogens. Students learn about the physiological and psychological effects of drugs, as well as the rules, laws, and regulations surrounding them. The difference between appropriate and inappropriate drug use will also be discussed. In addition, students will learn about coping strategies, healthy behaviors, and refusal skills to help them avoid and prevent substance abuse, as well as available resources where they can seek help.

Exercise Science
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: This course takes an in-depth examination of the effects of exercise on the body. Through this course, students will learn basic anatomy, biomechanics, and physiology, as well as proper principles and techniques to designing an effective exercise program. The study of nutrition and human behavior will also be integrated into the course to enhance the students’ comprehension of this multifaceted subject.

First Aid and Safety
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: In this course, students learn and practice first aid procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety, and disaster preparedness.

Fitness Lifestyle Design (PE 2)
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Club Web invites you to a “vacation of a lifetime.” During your stay, you will learn healthy habits of body and mind that will lead to a healthier lifestyle. You will measure your beginning fitness level and nutrition knowledge, and will create an individual plan for achieving your individual goals. Club Web combines the expertise
of a professional fitness staff with natural surroundings perfect for fun and relaxation. Among the numerous activities available to you as our guest are golf, tennis, racquetball, biking, the health and fitness center, and the walking and jogging trail. You will leave Club Web having improved your flexibility, enhanced your cardiovascular fitness, and increased your strength and endurance. The goal of this course is to help you experience the benefits of exercise, good diet and proper weight. We are quite sure that your “vacation of a lifetime” will last a lifetime.

**Flexibility**

**Credits .5**

**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** This course focuses on the often-neglected fitness component of flexibility. Students establish their fitness level, set goals, and design their own flexibility training program. They study muscular anatomy and learn specific exercises to stretch each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles to flexibility training. This course explores aspects of static, isometric, and dynamic stretching, as well as touch on aspects of yoga and Pilates. This course also discusses good nutrition and effective cross-training. Students take a pre- and post-fitness assessment. Throughout this course, students also participate in a weekly fitness program involving flexibility training, as well as elements of cardio and strength training.

**Health Opportunities through Physical Education (H.O.P.E.; .5 credit PE/.5 credit Health)**

**Credits 1**

**Estimated Completion Time 2 segments/32-36 weeks**

**Overview:** With a focus on health and fitness, this course guides students to be active and healthy now and for a lifetime. Effective strategies and techniques are a foundation of the course so that students can continually make improvements in all areas of wellness. Students, with the guidance of a training instructor, set personal goals in four areas of wellness: physical, emotional, social, and academic. Fitness assessments enable students to establish baseline levels of fitness and work toward improvement in specific areas. At the end of each module, students submit a wellness plan documenting their daily physical activity, progress toward goals, changes in fitness assessment results, and reflections on personal progress. By following individualized training principles, students can achieve personal success and gain confidence, while they develop healthy lifetime habits. The course uses videos, graphics, and interactive learning opportunities to encourage students to eat well, get up, and be active.

**Health Sciences**

**Credits .5**

**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and the measles identified and diagnosed? Health sciences provide the answers to questions such as these. In this course, students will be introduced to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. They will explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas. This course does not satisfy the state health course requirement.

**Intro to Nursing 1**

**Credits .5**

**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** This course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, crisis management will be included. This course is one of our Career Exploration offerings.
**Intro to Nursing 2**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** This course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, crisis management will be included. This course is one of our *Career Exploration* offerings.

**Introduction to Coaching**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** Introduction to Coaching focuses on the various responsibilities of a coach and the skills needed to successfully fill this important position. Throughout the course, students will explore various coaching models and leadership styles, sports nutrition and sports psychology, as well as safety, conditioning, and cross-training. Students will learn effective communication, problem-solving, and decision making skills. The course will also introduce students to game strategy, tactical strategy, skills-based training, and coaching ethics.

**Life Management Skills (health)**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** This course is all about you and the important decisions you make. It’s also about having the correct information before making those decisions. We’ll deal with real issues like nutrition, substance abuse, coping with stress, and what to do about sex. Good health is both mental and physical. Making good decisions starts with knowing the facts, understanding the consequences, and having the confidence to choose well. A series of signposts will take you through the course providing information, direction, and a little encouragement. We’ll also offer some important tools for communicating your feelings and opinions. We’ll even talk about being a savvy consumer in a world of advertising, credit cards, and designer blue jeans. This is a course comes with a long-term payoff. The good decisions you make now will set a positive direction you can follow for a lifetime.

**Lifetime and Leisure Sports**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** This course provides students with an overview of dual and individual sports. Students learn about a variety of sports, and do an in-depth study of martial arts, Pilates, fencing, gymnastics, and water sports. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to many of these sports. Students also learn the components of fitness, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments, set goals, and participate in weekly physical activity.

**Nutrition**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** This course takes students through a comprehensive study of nutritional principles and guidelines. Students will learn about world-wide views of nutrition, nutrient requirements, physiological processes, food labeling, healthy weight management, diet related diseases, food handling, nutrition for different populations, and more. Students will gain important knowledge and skills to aid them in attaining and maintaining a healthy and nutritious lifestyle.
Outdoor Sports
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: This course provides students with an overview of dual and individual sports. Students learn about a variety of sports, and do an in-depth study of hiking and orienteering, golf, and dual volleyball. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to many of these sports. Students also learn the FITT principles, benefits of fitness, and safety and technique. Students conduct fitness assessments, set goals, and participate in weekly physical activity.

Personal Fitness (PE 1)
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: In this Personal Fitness course, students are required to participate in weekly cardiovascular, flexibility and strength and endurance activities. Students who are unable to participate in such physical exercises will be unable to complete the requirements of this course. Students who have an Individualized Educational Plan (IEP) or some other physical limitation that prevents them from participating in physical activity should seek to enroll in an Adaptive Physical Education course.

Personal Training
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: This course examines the role and responsibilities of a personal trainer. Students will learn the steps to become a personal trainer, including performing fitness assessments, designing safe and effective workouts, and proper nutrition principles. Concepts of communication and motivation will be discussed, as well as exercise modifications and adaptations for special populations. Students will also examine certification requirements, business and marketing procedures, and concerns about liability and ethics. In addition, throughout the course students will be able to explore various exercises, equipment, and tools that can be used for successful personal training. *This course is recommended for grades 10-12.

Running
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: This course is appropriate for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students learn about goals and motivation, levels of training, running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. Students conduct fitness assessments and participate in weekly physical activity.

Sports Officiating
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: In this course, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, football, and tennis. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play.

Strength Training
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: This one-semester course by Carone Fitness focuses on the fitness components of muscular strength and endurance. Throughout this course, students establish their fitness level, set goals, and design their own resistance training program. They study muscular anatomy and learn specific exercises to strengthen each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to
apply the FITT principles and other fundamental exercise principles, such as progression and overload, to strength training.

**Walking Fitness**

**Credits**: .5  
**Estimated Completion Time**: 1 segment/16-18 weeks  
**Overview**: This course helps students establish a regular walking program for health and fitness. Walking is appropriate for students of all fitness levels and is a great way to maintain a moderately active lifestyle. In addition to reviewing fundamental principles of fitness, students learn about goals and motivation, levels of training, walking mechanics, safety and injury prevention, appropriate attire, walking in the elements, good nutrition and hydration, and effective cross-training. Students take a pre- and post-fitness assessment. Throughout this course, students also participate in a weekly fitness program involving walking, as well as elements of resistance training and flexibility.

**MATHEMATICS**

**Advanced Algebra with Financial Applications**

**Credits**: 1  
**Estimated Completion Time**: 2 segments/32-36 weeks  
**Overview**: This course walks students through the information needed to make the best decisions with money. Advanced Algebra with Financial Applications is an advanced course incorporating real-world applications, collaboration, and calculations using technology. Students learn the formulas used to determine account balances, monthly payments, total costs, and more. They examine budgeting, spending, saving, investment, and retirement. Students explore mortgages and other debt structures and how to make good decisions about borrowing money. This knowledge will propel students into the future with a good foundation on how to handle finances.

**Algebra 1 (Honors Option Available)**

**Credits**: 1  
**Estimated Completion Time**: 2 segments/32-36 weeks  
**Overview**: Algebra I is the foundation—the skills acquired in this course contain the basic knowledge needed for all future high school math courses. The material covered in this course is important, but everyone can do it. Everyone can have a good time solving the hundreds of real-world problems algebra can help answer. Course activities make the numbers, graphs, and equations more real. The content in this course is tied to real-world applications like sports, travel, business, and health. This course is designed to give students the skills and strategies to solve all kinds of mathematical problems. Students will also acquire the confidence needed to handle everything high school math has in store for them. Algebra I emphasizes the importance of algebra in everyday life through hundreds of real-world examples. Assessments are designed to ensure that your understanding goes beyond rote memorization of steps and procedures. Upon successful course completion, you will have a strong foundation in Algebra I and will be prepared for other higher level math courses.

**Algebra 2 (Honors Option Available)**

**Credits**: 1  
**Estimated Completion Time**: 2 segments/32-36 weeks  
**Overview**: This course allows students to learn while having fun. Interactive examples help guide students’ journey through customized feedback and praise. Mathematical concepts are applied to everyday occurrences such as earthquakes, stadium seating, and purchasing movie tickets. Students investigate the effects of an equation on its graph through the use of technology. Students have opportunities to work with their peers on specific lessons. Algebra 2 is an advanced course using hands-on activities, applications, group interactions, and the latest technology.

**Geometry (Honors Option Available)**

**Credits**: 1  
**Estimated Completion Time**: 2 segments/32-36 weeks  
**Overview**: One day in 2580 B.C.E., a very serious architect stood in a dusty desert with a set of plans. His plans called for creating a structure 480 feet tall, with a square base and triangular sides, using stone blocks weighing two tons each. The Pharaoh wanted the job done right. The better this architect understood geometry, the better his chances
were for staying alive. Geometry is everywhere, not just in pyramids. Engineers use geometry to build highways and 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, students travel a mathematical highway illuminated by spatial relationships, reasoning, connections, and problem solving.

Liberal Arts Math / Algebra 2
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: The total weight of two beluga whales and three orca whales is 36,000 pounds. As you’ll see in this course, if given one additional fact, you can determine the weight of each whale. To answer this weighty question, we’ll give you all the math tools you'll need. The setting for this course is an amusement park with animals, rides, and games. Your job will be to apply what you learn to dozens of real-world scenarios. Equations, geometric relationships, and statistical probabilities can sometimes be dull, but not in this class! Your park guide (teacher) will take you on a grand tour of problems and puzzles that show how things work and how mathematics provides valuable tools for everyday living. Come reinforce your existing algebra and geometry skills to learn solid skills with the algebraic and geometric concepts you’ll need for further study of mathematics. We have an admission ticket with your name on it and we promise an exciting ride with no waiting!

Math Topics
Credits Varies
Estimated Completion Time yearlong
Overview: This course provides a series of math topics for students to select from based on their needs. It can be used for math acceleration, remediation or to supplement existing curriculum. Each topic begins with a pre-assessment from which a personal learning path is developed for the student. Based on the pre-assessment, the learning path includes refreshers on concepts students may have forgotten and lessons on concepts the student has not yet mastered. The learning path does not require students to complete lessons on concepts the student has mastered.

Course Requirements: students work with a certified VLACS math teacher throughout the course. The teacher coaches the student through the course by completing a Welcome Call at the beginning of the course, monitoring student progress, identifying areas of struggle, meeting regularly with the student, and completing monthly calls with the student and parent. Students may work with their school to identify the set of topics that meet their needs. The groupings below are provided to aid in potential sets of topics, but students may select whatever topics meet their particular needs. Credit for completion of topics will be determined by the student’s school of record. VLACS will not award credit, but will report topics in which a student has demonstrated competency, which can be used by schools to award credit. Credit Recommendations: VLACS recommends that students be awarded 0.5 credits for each set of 4 competencies completed.

Pre-Calculus Honors
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: Students, as mathematic analysts, investigate how advanced mathematics concepts are used to solve problems encountered in operating national parks. As students venture from algebra to trigonometry, they analyze and articulate the real-world application of these concepts. The purpose of this course is to study functions and develop skills necessary for the study of calculus. This course includes algebra, analytical geometry, and trigonometry.

RESEARCH & CRITICAL THINKING

English Language Arts Critical Thinking (SAT, ACT, CCSS Test Prep)
Credits .25
Estimated Completion Time 8 weeks
Overview: This course will focus on English and Language Arts (ELA) critical thinking skills and is appropriate for students looking to review these skills in preparation for standardized tests such as the SAT, ACT and Common Core Standards Assessment. The course begins with an overview of techniques relating to critical thinking and test
taking, followed by a sample standardized assessment. Students will then explore topics including vocabulary, reading skills and writing skills.

**Math Critical Thinking (SAT, ACT, CCSS Test Prep)**

*Credits .25*

**Estimated Completion Time 8 weeks**

**Overview:** This course will focus on math critical thinking skills, and is appropriate for students looking to review these skills in preparation for standardized tests such as the SAT, ACT and Common Core Standards Assessment. The course begins with an overview of techniques relating to critical thinking and test taking, followed by a sample assessment. Students then explore topics including integers, statistics, algebra, geometry, charts and graphs. Students may elect to take the entire course (¼ credit) or select one or more of the topics listed below (no credit awarded from VLACS).

**Thinking and Learning Strategies**

*Credits .5*

**Estimated Completion Time 1 segment/18 weeks**

**Overview:** The digital world seems to change every day, and touch more of our lives. We use technology to communicate with friends and family, find neverending entertainment options, follow our favorite sports teams and fashion trends, and do our school work. In Learning in a Digital World you will get the tools to navigate this exciting and always changing world. Learn about real-world issues and how to solve real-world problems through interactive and hands-on assignments. Discover what it means to be a responsible digital citizen, expand your digital literacy, and become a successful online student. Consider the best ways to find, create, and share information, learn to maximize information and communication technologies, and explore digital content creation, from emails and blogs to social media, videos, and podcasts.

**SCIENCE**

**Anatomy and Physiology (Honors Option Available)**

*Credits 1*

**Estimated Completion Time 2 segments/32-36 weeks**

**Overview:** Explore the organization of the human body and how it works. Acquire knowledge necessary to understand what the body is doing and how you can help the body cope with many different situations. Body systems will be studied in order to understand how their structure, location, and function allow for interaction with other parts of the body. This version of Anatomy and Physiology is fully compatible with mobile devices. Students can access all course materials, interactivities, and assessments from their tablet or smart phone.

**Astronomy**

*Credits .5*

**Estimated Completion Time 1 segment/16-18 weeks**

**Overview:** Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe that surrounds us. This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the exploration of space.

**Biology Lab (Honors Option Available)**

*Credits 1*

**Estimated Completion Time 2 segments/32-36 weeks**

**Overview:** The Biology course guides students through the study of living and non-living systems and how they interact with one another. Students explore the world they live in by posing questions and seeking answers through scientific inquiry. Discovery takes place through observation and data collection. The students will be introduced to the structure, function, diversity, and evolution of living matter. This is a course with real relevance. It encourages
curiosity and provides opportunity for students to work on hands on lab activities and develop relationships through collaboratively learning. Engaging in the study of biological science broadens the picture of the world around us.

**Biotechnology 1a**  
**Credits .5**  
**Estimated Completion Time** 1 segment/19 weeks  
**Overview:** Can we bring back extinct species? Will the cures for cancer, malaria, and other diseases come from the combination of natural materials and new technologies? How is science changing the foods we eat? Welcome to the world of biotechnology! In this course, you will explore the history of biotechnology, including early attempts at food preservation, the development of antibiotics, and changes to food crops around the world. You’ll also learn more about some of the challenges of biotechnology, such as the growth of antibiotic resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs). Finally, you’ll research new biotechnologies and how they are changing the world we live in.

**Biotechnology 1b**  
**Credits .5**  
**Estimated Completion Time** 1 segment/19 weeks  
**Overview:** Can we bring back extinct species? Will the cures for cancer, malaria, and other diseases come from the combination of natural materials and new technologies? How is science changing the foods we eat? Welcome to the world of biotechnology! In this course you’ll learn more about some of the challenges of biotechnology, such as the growth of antibiotic-resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs). Finally, you’ll research new biotechnologies and how they are changing the world we live in.

**Chemistry Lab (Honors Option Available)**  
**Credits 1**  
**Estimated Completion Time** 2 segments/32-36 weeks  
**Overview:** This course is designed as an interactive, 21st century course focusing on Chemistry. Topics include the composition, properties, and changes associated with matter and their applications. This course is designed to serve as a foundation for the study of Chemistry. The utilization of scientific inquiry, web 2.0 tools, interactive experiences, higher order thinking, collaborative projects, real world application through labs and a variety of assessments all aid the student in ultimately demonstrating a vast understanding of the importance of Chemistry in the world around them; enabling them to apply these properties to their everyday lives.

**Concepts of Engineering & Technology**  
**Credits .5**  
**Estimated Completion Time** 1 segment/16-18 weeks  
**Overview:** Each day, we are surrounded by technology and engineering projects. From our phones to the bridges we drive over, engineering and technology influence many parts of our lives. In Concepts of Engineering and Technology, you will learn more about engineering and technology careers and what skills and knowledge you’ll need to succeed in these fields. You’ll explore innovative and cutting-edge projects that are changing the world we live in and examine the design and prototype development process. Concepts of Engineering and Technology will also help you understand the emerging issues in this exciting career field.

**Earth Space Science Lab (Honors Option Available)**  
**Credits 1**  
**Estimated Completion Time** 2 segments/32-36 weeks  
**Overview:** Be captivated by the wonders and beauty of the third planet from our Sun, Earth. Be amazed by what awaits your discovery within our solar system and beyond. It is your turn to explore the universe. Earth/Space Science is a laboratory course focusing on the study of space, geologic structures and forces, the waters on our planet, and the atmospheric forces that shape our world. Through experimentation and investigation, students will explore the earth cycles including the geosphere, hydrosphere, cryosphere, atmosphere, and the carbon cycle. Students will learn about scientific inquiry, geologic time, space exploration, the solar system, and the universe. Students will use web 2.0 tools, interactive experiences, higher-order thinking, collaborative projects, and real-world application through labs.
and a variety of assessments. Upon completion of the course, students will have a clear understanding of the dynamic forces at work in the world around them, becoming better caretakers of our planet, Earth.

**FIRST Engineering Experience**
**Credits .5**
**Estimated Completion Time 1 segment/19 weeks**
**Overview:** Are you participating in the FIRST Robotics Competition or the FIRST Tech Challenge and would like to earn credit for your learning? Then you have come to the right place! This experience is designed for students working on the engineering component of either of the FIRST Robotics or Tech Challenge to demonstrate mastery of key engineering concepts and skills and earn a half science elective credit. The VLACS Experience is designed in collaboration with FIRST to allow students to build off of what they are learning as a FIRST participant and utilize the products that are produced through FIRST to demonstrate mastery of engineering competencies.

**Forensic Science 1**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**
**Overview:** Fingerprints. Blood spatter. DNA analysis. 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.

**Forensic Science 2**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**
**Overview:** Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

**Green Design and Technology (Introduction to Environmental Science)**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**
**Overview:** This course will examine the impact of human activities on sustainability while exploring the basic principles and technologies that support sustainable design. Learn about the potential for emerging energy technologies like water, wind, and solar power. Find out how today’s businesses are adapting to the increased demand for sustainable products and services. By the end of this course, you will have a comprehensive understanding of this fast-growing field.

**Introduction to Renewable Technologies**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**
**Overview:** Interested in transforming energy? With concerns about climate change and growing populations’ effects on traditional energy supplies, scientists, governments, and societies are increasingly turning to renewable and innovative energy sources. In the Introduction to Renewable Technologies course, you’ll learn all about the cutting-edge field of renewable energy and the exciting new technologies that are making it possible. You’ll explore new ways of generating energy and storing that energy, from biofuels to high-capacity batteries and smart electrical grids. You’ll also learn more about the environmental and social effects of renewable technologies and examine how people’s energy decisions impact policies.

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Marine Science Lab (Honors Option Available)
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: As our amazing planet continues to change over time, it becomes increasingly apparent how human activity has made environmental impacts. In the marine science course, students will delve deep into Earth’s bodies of water and study geologic structures and how they impact the oceans. Students will investigate characteristics of various populations, patterns of distribution of life in our aquatic systems, and ongoing changes occurring every day in our precious ecosystems. Students will be amazed and enlightened at just how much our oceans and lakes affect climate, weather, and seasonal variations. They will have the opportunity to explore the relationships among living organisms and see how they are affected by our oceans currents, tides, and waves. Hold on, it is one amazing journey.

Physical Science Lab (Honors Option Available)
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: This course is designed as an interactive, 21st century course focusing on basic physics and chemistry. Topics include forces and motion, energy through waves, electricity and magnetism, the matter around us, chemical bonding and reactions. This course is designed to serve as a foundation for the study of the physical sciences. The utilization of scientific inquiry, web 2.0 tools, interactive experiences, higher order thinking, collaborative projects, real world application through labs and a variety of assessments all aid the student in ultimately demonstrating a vast understanding of the importance of the physical and chemical properties of the world around them; enabling them to apply these properties to their everyday lives.

Physics 1 Lab (Honors Option Available)
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: In each module of Physics I, students discover the contributions of scientific geniuses like Galileo, Newton, and Einstein. Through their work, students learn the concepts, theories, and laws that govern the interaction of matter, energy, and forces. From tiny atoms to galaxies with millions of stars, the universal laws of physics are explained through real-world examples. Using laboratory activities, simulations, images, and interactive elements, students follow in the footsteps of some of the world's greatest thinkers.

Veterinary Science
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times…we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

SOCIAL STUDIES

African American History
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: How have African Americans shaped the culture of the United States throughout history? Tracing the accomplishments and obstacles of African Americans from the slave trade through emancipation, and to the modern African diaspora, you will learn about the political, economic, social, religious, and cultural factors that have influenced African American life. In African American History, you’ll come face to face with individuals who changed the course of history and learn more about slavery, racism, and the Civil Rights Movement. You will also explore how the history of African Americans influences current events today.
Careers in Criminal Justice
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: The criminal justice system offers a wide range of career opportunities. In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system.

Criminology
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: In today’s society, crime and deviant behavior are often one of the top concerns of society members. From the nightly news to personal experiences with victimization, crime seems to be all around us. In this course, we will explore the field of criminology or the study of crime. In doing so, we will look at possible explanations for crime from psychological, biological, and sociological standpoints, explore the various types of crime and their consequences for society, and investigate how crime and criminals are handled by the criminal justice system. Why do some individuals commit crimes but others don’t? What aspects in our culture and society promote crime and deviance? Why do individuals receive different punishments for the same crime? What factors shape the criminal case process, from arrest to punishments?

Economics (Honors Option Available)
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Economic decisions affect us every day of our lives. Understanding economics means thinking about how scarcity, or limited resources, requires us to make choices and evaluate one option against others. In this course, you will recognize examples of economics in your daily life. You will see how the economic choices of larger groups, like businesses and governments, affect you and others. As you progress through the course, you will recognize that the costs and benefits of choices connect individuals and groups around the world. The purpose of this course is to help you become a smart consumer who understands the flow of an economy between individuals, businesses, governments, and the rest of the world.

Global Studies
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: With more than seven billion people in the world today, there are a lot of stories to write about. Researching and writing these stories will be your assignment as a new reporter for the Global News Network. In this course, all the stories are big stories. Human rights, the environment, global security, and international economic systems are all part of your beat. The stories also have real human interest because they deal with peoples’ customs, cultures, and how they interact. Your job will be to research the facts and present them with clarity and context. Your job will also involve identifying real global problems and then, suggesting well-developed solutions. This is a course that makes you think. The stories are current and compelling. They need to be told, and the right person to tell them is you.

History of the Holocaust
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multi-disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times.
**Human Geography**  
Credits .5  
**Estimated Completion Time 1 segment/16-18 weeks**  
**Overview:** How do language, religion, and landscape affect the physical environment? How do geography, weather, and location affect customs and lifestyle? Students will explore the diverse ways in which people affect the world around them and how they are affected by their surroundings. Students will discover how ideas spread and cultures form, and learn how beliefs and architecture are part of a larger culture complex. In addition to introducing students to the field of Human Geography, this course will teach students how to analyze humans and their environments.

**Introduction to Anthropology**  
Credits .5  
**Estimated Completion Time 1 segment/16-18 weeks**  
**Overview:** “Anthropology demands the open-mindedness with which one must look and listen, record in astonishment and wonder that which one would not have been able to guess.” (Margaret Mead)  
The aim of anthropology is to use a broad approach to gain an understanding of our past, present, future and address the problems humans face in biological, social and cultural life. This course will explore the evolution, similarity and diversity of humankind through time. It will look at how we have evolved from a biologically and culturally weak species to one that has the ability to cause catastrophic change Exciting online video journeys to different areas of the world will also be presented in the course.

**Introduction to Philosophy**  
Credits .5  
**Estimated Completion Time 1 segment/16-18 weeks**  
**Overview:** This course will take you on an exciting adventure that covers more than 2500 years. Along the way, you’ll run into some very strange characters. For example, you’ll read about a man who hung out on street corners, barefoot and dirty, pestering everyone he met with questions. You’ll read about another man who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the most brilliant and influential thinkers of all time. As you read about them, you’ll see where many of the most fundamental ideas of Western civilization came from. You’ll also get a chance to ask yourself some of the same questions these great thinkers pondered. At the end, you’ll have a better understanding of yourself and the world around you, from atoms to outer space and everything in between.

**Introduction to Sociology**  
Credits .5  
**Estimated Completion Time 1 segment/16-18 weeks**  
**Overview:** The world is becoming more complex. How do your beliefs, values and behavior affect the people around you and the world we live in? In this increasingly connected world, students will examine problems in our society and learn how human relationships can influence the life of the student. Exciting online video journeys to different areas of the world are also presented in the course.

**Introduction to Women’s Studies**  
Credits .5  
**Estimated Completion Time 1 segment/16-18 weeks**  
**Overview:** This course, although looking specifically at the experiences of women, is not for girls only. If you are a student interested in exploring the world through film and open minded enough to be interested in social change, this course is for you. Adult themes are explored in a direct and mature manner in this course. This material may not be appropriate for middle school or early high school students.
Law and Order
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Every purchase, lease, contract, marriage, divorce, arrest, crime or traffic violation places the citizen face-to-face with the law. Law & Order is designed to provide students with an understanding of their legal rights and responsibilities.

Military Careers
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: You’ve probably seen an old movie about a hotshot naval aviator, or perhaps a more recent film about the daring actions of Special Forces operatives. But do you really know what careers the military can offer you? Introduction to Military Careers will provide the answers. The military is far more diverse and offers many more career opportunities and tracks than most people imagine. In Introduction to Military Careers, you’ll learn not only about the four branches of the military (and the Coast Guard) but also about the types of jobs you might pursue in each branch. From aviation to medicine, law enforcement to dentistry, the military can be an outstanding place to pursue your dreams.

National Security
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Do you know what it takes to keep an entire nation safe? Not only does this effort require knowledge on how to handle disasters, but it demands a cool head and tremendous leadership abilities. In National Security, you will have the opportunity to learn about the critical elements of the job, such as evaluating satellite information, analyzing training procedures, assessing military engagement, preparing intelligence reports, coordinating information with other security agencies, and applying appropriate actions to various threats. Put yourself in the position of the country’s decisive leaders and develop your own knowledge base and skill set necessary to meet the requirements of our nation’s most demanding career.

Psychology
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: The human brain is fascinating. Where do thoughts and memories come from? What are emotions? And why do we behave the way we do? Above all, how do these factors influence our relationships with others? In Psychology I, you will begin to understand the human mind by exploring the research and theories of some of the most brilliant psychologists throughout history. Learn how psychology influences personality and development throughout the entire human lifespan, even from birth. Explore different psychological disorders and how they are treated according to the Diagnostic and Statistical Manual of Mental Disorder. And learn psychological tips that you can use every day, like how to cope and reduce stress. So, are you ready to unlock the mysteries of the human brain?

Social Problems 1
Credits .5
Estimated Completion Time 1 segment/18 weeks
Overview: Students will learn more about the challenges facing societies and the relationships between societies, governments, and individuals in these areas. Each unit will focus on a particular area of social concern, often with a global view, and examine possible solutions at both a structural and individual level.

Social Problems 2
Credits .5
Estimated Completion Time 1 segment / 18 weeks
Overview: The Social Problems II course continues to examine the social problems that affect individuals and societies in the world today. Students learn about the overall structure of the social problem as well as how it impacts their lives. Each unit focuses on a particular social problem, including racial discrimination, drug abuse, the loss of
community, and urban sprawl, and discusses possible solutions at both individual and structural levels. Students examine the connections in each issue between societies, individuals, governments, and the global arena.

**U.S. Government (Honors Option Available)**
**Credits .5**
**Estimated Completion Time 1 segment/18 weeks**
**Overview:** Responsible citizenship means more than just paying taxes. It means understanding the principles and practices of government. It also means defining your beliefs as to what good government is. In this course, you will take on the role of a Washington D.C. intern and spend time working throughout the nation’s capital with all three branches of the government- and beyond. As you progress through the internship you will gain a greater understanding on the history of the country’s beginnings, and knowledge of how government functions at the local, state and national levels. The purpose of this course is to help you become an informed and active citizen. In part, the Constitution asserts that, “Governments are instituted among Men, deriving their just Powers from the Consent of the Governed.” Make yours an informed consent.

**United States History (Honors Option Available)**
**Credits 1**
**Estimated Completion Time 2 segments/36 weeks**
**Overview:** The United States began as an experiment in freedom and democracy. Since its establishment, the country and its people have endured social, political and economic revolutions. In this course, students will investigate the people, events and ideas that have shaped the United States from the end of the Civil War through today. Students are asked to analyze and evaluate decisions made by political, business and military leaders. Emphasis is placed on connections between events of the past and present. This course also gives students the opportunity to conduct research and apply their learning to current, real-world problems.

**World History (Honors Option Available)**
**Credits 1**
**Estimated Completion Time 2 segments/36 weeks**
**Overview:** Join Ali and Soo-jin, our modern time travelers, as they journey through World History to take you on an adventure as you discover the interconnectedness of world events and eras. Grab your passport for the adventure of a lifetime. In Segment I, students will learn how the Roman Empire developed in two very distinct directions. Next, students will discover the great intellectual and cultural contributions of Islamic Empires. Journey through the Middle Ages of Europe and Japan to learn how knights and samurais lived. You will also investigate the rise and fall of some of the great kingdoms of the Americas and Africa and then travel back to the Europe of the Renaissance and Reformation era. Hang on tight, before you dive into the Age of Discovery when eastern and western hemispheric encounters created for some turbulent times. Segment II begins with a bang as students will learn about advancements in science and thought during the Age of Enlightenment and the social and political revolutions that followed as a result. As students meander through the 19th century, they will learn about the transformation from an agricultural to an industrial world and the many changes that resulted from that shift. Students will then learn about the interconnectedness of nationalism and colonialism and the two massive world wars were the end result. As students approach the finish line, they will learn about development in our modern world and the implications that historical events have on us today.

**World Religions**
**Credits .5**
**Estimated Completion Time 1 segment/16-18 weeks**
**Overview:** Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will also discuss some of the similarities and differences among the major religions and examine the connections and influences they have.
WORLD LANGUAGE

French 1
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: Bienvenue! Welcome! Come and join various native French speakers as they give students a lively introduction to the language and its rich culture. Join them in their everyday environment as they take students through different daily scenarios and give them the necessary skills to read, write, and speak French. In this course, students learn the basic French language. After one semester, students will be able to engage in conversation in French including greeting people, introducing themselves, and exchanging basic information with others. Students learn to count from one to 1,000 and make simple sentences in both spoken and written French. Students continue to develop their French skills in semester two. New words and phrases are introduced with pictures, audio clips, and examples. Students learn basic French grammar to help them build fluency and understand the structure of the French language. Students have many opportunities to practice what they learn through interactive practice activities in the form of games, written practice, and listening and speaking exercises. Students also explore the cultures of France, Canada, and other French-speaking regions by learning about geography, foods, celebrations, and traditions from each place. Bon Voyage! Enjoy the trip!

French 2
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: Salut! Get set for some more adventure! In French II, students are immersed in the French language and culture. This course is full of engaging and interactive videos, dialogs, presentations, self-checks, and much more! The purpose of this course is to further develop the French communicative skills of listening, speaking, reading and writing. In French II, students will broaden their French vocabulary and knowledge of grammar. Students will also experience the beauty and expressiveness of a language that is shared by different people and cultures throughout the world.

French 3
Credits .5
Estimated Completion Time 1 segment/16 weeks
Overview: Students will demonstrate an understanding of the three primary verb groups including irregular and reflexive verbs in present, recent past and near future tenses, and object pronouns by using each to communicate in written and spoken French while discussing cultural and community-related information such as personal traits, gastronomy, and daily life. This is a projects course.

Latin 1
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: There is a reason “all roads lead to Rome.” Maybe it is because Romans built much of the ancient world’s highway system. Maybe it is also because the Roman culture and Latin language laid the foundation for much of Western culture. In this course, students find out for themselves as they take their first steps on a lifelong journey of discovery. Students improve their command of the English language by studying Latin. Students also gain a better understanding of today’s laws and culture by getting into the Roman mind. Latin I is the most comprehensive way to begin. The purpose of this course is to give students a foundation in Latin grammar and vocabulary. This course also acquaints students with Olympic gods and with the everyday life of the typical Roman. The course sets the students’ feet on a journey as big as their imagination, with a passport to some of the world’s most exciting places.

Latin 2
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: A story of epic proportions. History-changing battles, great poets and statesmen, classic art and architecture, and a language that was heard throughout most of the known world. In Latin I, you read the opening credits of this epic movie. In Latin 2, the plots and the characters that populated ancient Rome will come alive.
In this course, you’ll build on your knowledge of Latin grammar and vocabulary. In the process, you’ll sense the beauty of the language and the passion of those who spoke it. Roman engineering, art, commerce and system of laws were all supported by a clear, expressive and flexible language – a language in which you will be able to communicate. This course will give you a solid grounding in the structure of the language. It will also give you a clear lens for looking into the heart and majesty of the Roman spirit.

**Latin 3**

**Credits 1**

**Estimated Completion Time** 2 segments/32-36 weeks

**Overview:** Take your knowledge and appreciation of Latin to the next level. Read some of the best Latin prose and poetry ever written or spoken. Let Caesar tell you how he conquered the three parts of Gaul. Be moved by the eloquence of Cicero as he reminds Romans of the virtues that made their country great. And marvel at how Catullus could express the deepest human emotions in just a few, well-chosen words. In Latin 3, you will visit our library of great authors. Your library card will give you access to the timeless words of the greatest Roman poets, storytellers and orators. Your skills with the Latin language will give you direct access to the beauty and power of their thoughts. The purpose of this course is to strengthen your Latin vocabulary as well as your appreciation for well-crafted writing. You will go directly to the source and recognize why Latin and those who spoke it are still relevant today.

**Mandarin Chinese 1**

**Credits 1**

**Estimated Completion Time** 2 segments/32-36 weeks

**Overview:** Come and join various native speakers of Mandarin Chinese as they give you a lively introduction to the language and its rich culture. Join them in their everyday environment as they take you through different daily scenarios and give you the necessary skills to read, write and speak Chinese. In this course you will learn the basic Chinese language. After one semester, you will be able to engage in conversation in Chinese including greeting people, introducing yourself to others, and exchanging basic information with others. You will be able to count from 1 to 1000, and make simple sentences in both spoken and written Chinese. You will also learn 160 “magical” Chinese characters, and use them on a variety of topics. As you walk through the units with us step by step, you will get to know not only the language itself, but also the culture where the language takes place and keeps developing. At the very beginning, we will start by introducing you to a general knowledge of Pinyin, Mandarin Chinese, Chinese dialects, and Chinese characters.

**Mandarin Chinese 2**

**Credits 1**

**Estimated Completion Time** 2 segments/32-36 weeks

**Overview:** Mandarin Chinese 2 enables the students to further develop the communicative skills of listening, speaking, reading and writing of Mandarin Chinese at a more advanced level. Students are immersed in Chinese culture as virtual exchange students in China. Virtual excursions from one Chinese city to another expand their vocabulary helping them learn to interact with others and use appropriate terms to communicate in various everyday situations.

**Mandarin Chinese 3**

**Credits 1**

**Estimated Completion Time** 2 segments/32-36 weeks

**Overview:** In Mandarin Chinese 3, the students will continue to expand their abilities in various aspects of Chinese Mandarin learning. They will continue to build up their knowledge in vocabulary, sentence patterns, and grammar points in communicative contexts. They will also enhance their Chinese Mandarin listening and speaking skills such as pronunciations and intonations. The students will learn more in-depth Chinese reading and writing strategies and skills. Their Chinese reading abilities and efficiency will be greatly improved and they will be able to write in Chinese in various formats such as journal, letter, invitation, and essay. The students’ knowledge and skills in writing simplified Chinese characters will also be enriched and fortified. In this course, the students will learn more about the essential Chinese culture knowledge including the origins, histories, anecdotes, and etiquettes for various cultural settings, events, or occasions. They will also gain the ability to compare and contrast the Chinese culture with their own cultures in many different aspects.
Spanish 1
Credits 1
Estimated Completion Time 2 segments/ 32-36 weeks
Overview: ¡Bienvenidos! Welcome! Students are taking a virtual trip to Spain, Cuba, Colombia, and Argentina. As students explore each country, a student blogger is there to help them learn about the place and its unique characteristics. As students travel to each country, they learn how to speak Spanish in many practical and useful ways. Students learn how to greet people, introduce themselves, and speak about their home, family, school, and community. As students learn basic vocabulary and grammar skills, they expand on their knowledge and learn to speak about more complex topics such as shopping, weather, sports, entertainment, and leisure activities. The course introduces new words and phrases with pictures, audio clips, and examples. Students learn basic Spanish grammar to help them build fluency and understand the structure of the Spanish language. There are many opportunities to practice through interactive activities in the form of games, written practice, and listening and speaking exercises. Students also explore the cultures of Spain, Cuba, Colombia, and Argentina by learning about geography, foods, celebrations, and traditions from each place. Student bloggers guide students through these countries and help them appreciate and learn about their diversity.

Spanish 2
Credits 1
Estimated Completion Time 2 segments/ 32-36 weeks
Overview: In Spanish II, students travel virtually through Central America and the Caribbean, spending time in museums, traffic jams, and even the hospital. In this course, students broaden their Spanish vocabulary and their knowledge of grammar. They meet people from many different countries and cultures. While waiting for the plane ride home, students also meet some Spanish-speaking people from different parts of the United States. The purpose of this course is to strengthen Spanish listening, speaking, reading, and writing skills. Students also experience the beauty and expressiveness of a language that is shared by different people and cultures throughout the world.

Spanish 3
Credits 1
Estimated Completion Time 2 segments/ 32-36 weeks
Overview: Here we go on another adventure! In Spanish 3, you will meet and accompany four teens of Hispanic backgrounds as they learn about and travel to several Spanish speaking countries. In this course, you will have many opportunities to use the Spanish you already know as well as opportunities to expand your vocabulary, your knowledge of grammar and your experiences with Spanish speaking countries. The purpose of this course is to provide you with many experiences where you can use your Spanish. Completely immersed in Spanish, you will speak, listen, read, write, and collaborate with other students in this course. You will also gain knowledge and perspectives about Spanish speaking countries and from Spanish speaking people.
ADVANCED PLACEMENT (AP®)

AP® Art History
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: Within AP Art History, students will explore the interconnections between art, culture, and historical context using critical analysis through the critical lenses of artistic expression, cultural awareness, and purpose. Using a defined art historical skill set and reflective learning, students will analyze relationships across cultures with a global lens. The examination of how people have responded to and communicated their experiences through art will enable students to think conceptually about art ranging from prehistoric to contemporary. Students will be active participants, engaging with art and its context as they read, research, and collaborate to learn about art, artists, art making, and responses to and interpretations of art.

AP® Biology Lab
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: This challenging course is designed to provide a college-level experience and prepare students for the AP exam in early May. Over two semesters, students are engaged in a wide variety of activities, with substantial emphasis on interpreting and collecting data in virtual labs, writing analytical essays, and mastering biological concepts and connections. The key themes of the AP Biology course are the scientific processes, the effects of science on technology and society, the chemistry and make-up of living organisms, genetics, diversity, and evolution. Throughout this course, students are expected to answer questions, analyze data, discuss real-world connections, and complete lab activities. The primary emphasis is to develop an understanding of concepts rather than memorizing terms and technical details.

AP® Calculus AB
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: Students in this course will walk in the footsteps of Newton and Leibnitz. An interactive course framework combines with the exciting on-line course delivery to make calculus an adventure. The course includes a study of limits, continuity, differentiation, and integration of algebraic, trigonometric, and transcendental functions, and the applications of derivatives and integrals. An Advanced Placement (AP) course in calculus consists of a full high school year of work that is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning. Most colleges and universities offer a sequence of several courses in calculus, and entering students are placed within this sequence according to the extent of their preparation, as measured by the results of an AP examination or other criteria.

AP® Calculus BC
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: Students in this course will walk in the footsteps of Newton and Leibnitz. An interactive course framework combines with the exciting on-line course delivery to make calculus an adventure. The course includes a study of limits, continuity, differentiation, and integration of algebraic, trigonometric, and transcendental functions; the applications of derivatives and integrals; infinite series; parametric equations; and polar equations. An Advanced Placement (AP) course in calculus consists of a full high school year of work that is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning. Most colleges and universities offer a sequence of several courses in calculus, and entering students are placed within this sequence according to the extent of their preparation, as measured by the results of an AP examination or other criteria.
AP® Computer Science A
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: The AP Computer Science A course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems. AP® Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

AP® English Language and Composition
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: This course provides high school students with college-level instruction in studying and writing various kinds of analytic or persuasive essays on literary and nonliterary topics in language, rhetoric, and expository writing. Students become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. Both reading and writing should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects as well as how writing conventions and language contribute to effectiveness in writing. This course will effectively prepare students for the AP Exam by enabling them to read, comprehend, and write about complex texts while developing further communication skills on a college level.

AP® English Literature and Composition
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: The purpose of this course is to study and practice writing and to study literature. Students will learn to use the modes of discourse and recognize the assumptions underlying various rhetorical strategies. Students will also acquire an understanding of the resources of the language and of the writer’s craft. They will develop critical standards for the appreciation of any literary work and increase their sensitivity to literature as shared experience. Students must take the Advanced Placement Exam in order to receive Advanced Placement credit. Students who do not take the AP® Exam will be awarded Honors level credit.

AP® Environmental Science Lab
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: AP Environmental Science provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Students identify and analyze environmental problems that are natural and human-made. They evaluate the relative risks associated with these problems and examine alternative solutions for resolving or preventing problems. Laboratories support student content mastery in both hands-on and virtual experiences.

AP® Human Geography
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: The AP® Human Geography course is designed to provide college level instruction on the patterns and processes that impact the way humans understand, use, and change Earth’s surface. Students use geographic models, methods, and tools to examine human social organization and its effect on the world in which we live. Students are challenged to use maps and geographical data to examine spatial patterns and analyze the changing interconnections among people and places.
AP® Macroeconomics
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: You have been called upon to assist the leader of the Macro Islands who is running for reelection next year. The economy is in shambles, and you need to come up with some feasible solutions. This will not only help the people of the Macro Islands but will also ensure a victory for your employer. You were hired through the Internet and are being invited to travel first class to the Macro Islands where you can learn firsthand about the situation. You arrive at Pineapple Airport in the middle of the day and are met by a man with a briefcase who is holding a sign with your name on it. You approach the man and introduce yourself. “I’m Mr. Scarcity,” he says. “I’ll be your guide as you learn about the economic situation of the islands. You need to learn everything you can about macroeconomics and the Macro Island’s economy for your presentation to our island leader in May.” (Your AP Exam)

AP® Microeconomics
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: You traveled to the Micro Islands to assist the leader in winning re-election. You came for a job, but you realized as you were working that you loved the islands and wanted to make your home there. Because you are adept at giving economic advice to the leader, you have been appointed as the new President of the Sunny Seas Shell Company. As part of your role in assuming the leadership duties of the company, you will need to brush up on microeconomics. The Board of Directors has appointed Ms. Equilibrium to act as your personal assistant and advisor as you transition into your new role. You will be learning all you can about microeconomics and will be required to exhibit your knowledge in May at the annual Board of Directors’ meeting (the AP Exam).

AP® Psychology
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: AP Psychology is a college-level course providing students an overview of the development of human behaviors and thoughts. Along with preparation for the AP Psychology exam, the goals of this course are to immerse students in modern psychological investigation techniques, to accentuate the ethics and morality of human and animal research, and to emphasize scientific critical thinking skills in application to the social sciences. Psychology is a diverse social and biological science with multiple perspectives and interpretations. The primary emphasis of this course is to help students develop an understanding of concepts rather than memorize terms and technical details; the ultimate goal is to prepare students to successfully take the AP Psychology examination offered in May.

AP® Statistics
Credits 1
Estimated Completion Time 2 segments/32-36 weeks
Overview: This course is designed to provide college-level instruction on the concepts and tools for working with data. Students collect and analyze data and draw conclusions based on real-world information. The course challenges students to explore patterns, think critically, use a variety of tools and methods, and report their findings and conclusions.

AP® US Government and Politics
Credits .5
Estimated Completion Time 1 segment/16-18 weeks
Overview: Lights, camera, …action! Prepare to study the intricacies of the American Political Culture. The script is written and the actors participate daily in the drama of American politics. You will be “on location” to delve into primary source documents. You will go behind the scenes with stars such as the President, Congress people, and Supreme Court Justices. You will research the roles of the media, political parties, interest groups, states, candidates, bureaucracy, and the public in the governmental process. Finally, you will witness the large-scale production of policy building in the areas of economic/social policy, foreign policy and public administration.
**AP® United States History**

**Credits 1**

**Estimated Completion Time** 2 segments/32-26 weeks

**Overview:** AP United States History focuses on developing students’ abilities to think conceptually about U.S. history from approximately 1491 to the present and apply historical thinking skills as they learn about the past. There are seven themes of equal importance built into this course: identity; peopling; politics and power; work, exchange, and technology; America in the world; environment and geography; and ideas, beliefs, and culture that provide areas of historical inquiry for investigation. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.
DUAL CREDIT COURSE

DESCRIPTIONS

(HIGH SCHOOL & COLLEGE CREDIT)

NOTE: Content varies depending on course version.
For current content, visit www.vlacs.org.

ARTS/VISUAL ARTS

Applied Humanities – HUM 200 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: What is the purpose of art, literature, and philosophy? Is it enough to create simply for the act of creating, or should a work serve as a deliberate commentary, be it political, social, personal, or derivative of other motivations? In this course, students have the opportunity to select works, collections, or periods within the humanities for research and study. The study is guided by both subjective and objective analyses to differentiate between an artist’s or author’s intended meaning and a society’s interpretation of that meaning.

Introduction to Humanities I – FAS 201 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: This course offers vocabulary, understanding and appreciation of the visual arts in their cultural contexts in history, religion, literature, music and ideas. It focuses on the achievements of ancient Greece and Rome, the medieval period and the Renaissance while also exploring related issues in non-European cultures. May be taken independently of FAS 202.

Introduction to Humanities II – FAS 202 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: This course offers vocabulary, understanding and appreciation of the visual arts in their cultural contexts in history, religion, literature, music and ideas. It focuses on the cultural periods of the Baroque, the Enlightenment, Romanticism and Early Modernism while also exploring related issues in non-European cultures. May be taken independently of FAS 201.

Perspectives in the Humanities – HUM 100 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: Art, literature, and philosophy tell lasting stories. Beyond the intended purpose of the artists and authors, or the shifting interpretations of the audiences, these creations tell us about cultural development, changes in worldview, and common themes that span centuries and continents. How have you come to understand the world? How do you express that understanding through the act of creating? This will investigate the purpose of art, literature, and philosophy across different periods, how its themes represent the cultures that produced it, and how that art still serves society today.
Perspectives in the Liberal Arts – IDS 100 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: Introduce students to the four general education lenses of academic inquiry: humanities, history, social science, and natural science. Apply these lenses as a framework for understanding relevant topics, distinguish opinion from research, and communicate ideas clearly. Develop an awareness for different points of view and how they impact the development of a well-educated individual.

BUSINESS

Personal Financial Planning – FIN 250 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: This course provides an overview of personal financial decision-making. The course uses the life-cycle approach and emphasizes financial planning for each phase of life. Topics covered include career planning, budgeting, use of credit, insurance, investments, retirement planning and income tax planning.

COMMUNICATIONS

Introduction to Communications – COM 126 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: This communications survey course covers mass media, culture, and society. The course focuses on how and why the US media operate as they do, as well as on how media performance might be improved.

Public Speaking – COM 212 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: Through a variety of speech experiences, students in Public Speaking will master effective speech delivery, learn to construct and deliver six different types of speeches, develop confidence and comfort speaking in front of an audience and understand the importance of public speaking in our lives.

COMPUTER SCIENCE

Objected Oriented Programming – CIS122G (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart

ENGLISH

Creative Writing – ENG 226 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: This course is an introductory creative writing course designed to acquaint students with the craft of creative writing and the skills that will be required in subsequent creative writing workshops. Students will explore such craft issues as point of view, voice, characterization, dialogue, setting, conflict, rhythm, imagery, poetic structure, and dramatic scene development. Students will be expected to submit a number of writing exercises as well as complete poems and stories. They will also be expected to read and comment on their peers’ writing with thoughtful and constructive criticism, as well as read and discuss published work.
Early World Literature – LIT 201 (SNHU)
Credits 1
Estimated Completion Time 1 segment/16-18 weeks
Overview: This course explores both early European (classical and medieval) cultures as well as the great non-European cultures of Asia, Africa and the Americas. The material covered will vary, but readings will focus on a major theme such as the hero, the role of women, ethical values, views of nature or focus on an important common genre, such as epic or lyric poetry.

English Composition I – ENG 122 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: English 122 is a college-level writing course that introduces students to the various forms of academic discourse. This course focuses primarily on the basic elements of college composition and writing as a process in both narrative and analytical forms. Students will investigate the importance and promise of effective written communication in various personal and professional contexts and identify effective strategies through critical analysis of written works as well as their own writing. Finally, this course prepares students for more advanced research analysis by connecting students to important avenues of research.

English Composition II – ENG 123 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: English 123 focuses students on the importance of research to advancing knowledge for various purposes. This course will build on the foundations of composition and introduce students to the research process and the analysis and evaluation of various sources. Students will investigate the writing process for research as well as appropriate research methods and skills. Additionally, this course offers multiple opportunities to engage in the important tasks of revision and editing and will ask students to incorporate feedback to improve their writing.

English Composition – ENGL101C (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart

HEALTH & PHYSICAL EDUCATION

Human Growth and Development – PSYC112W (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart

Medical Terminology – HLTH101C (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart

Nutrition for Health and Fitness – BIOL1290L (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart
MATHEMATICS

Applied Finite Mathematics – MAT 130 (SNHU)
Credits 1
Estimated Completion Time 1 segment, 16-18 weeks
Overview: This course is designed to prepare students for other courses in the core curriculum and in their majors and to provide a basis for making decisions in life after graduation. Topics include mathematics of finance, probability and counting, and descriptive statistics.

Calculus – MAT 210 (SNHU)
Credits 1
Estimated Completion Time 1 segment, 16-18 weeks
Overview: This is an introductory course in single-variable calculus. Topics include limits, continuity, derivatives, differentiation, integration and the Fundamental Theorem of Calculus. Students will gain experience solving real-world problems involving calculus, including problems in business, economics, natural sciences and social sciences. Students may not take both MAT 210 and MAT 225 for credit.

Quantitative Reasoning – MATH120C (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, please visit CCSNH at https://www.ccsnh.edu/academics/estart.

Statistics – MATH251C (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, please visit CCSNH at https://www.ccsnh.edu/academics/estart.

SCIENCE

Applied Natural Sciences – SCI 200 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: In this course, you will be introduced to a number of important discoveries and events in the natural sciences. By studying these cases, you will learn how scientists construct studies and carry out research. Understanding the scientific process and how notable scientists have shaped the modern world will allow you to apply principles of the natural sciences to your everyday personal and professional experiences.

Perspectives in Natural Science – SCI 100 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: This introductory course serves as an entry point into the natural sciences, which concentrate on the natural world that both surrounds us and includes us. Students will explore the big ideas in natural science as well as the methods that the field employs to solve problems. The course emphasizes and explores empirical modes of study as a way of looking at the world and aims to foster science-literate citizens.

PC Applications – IST102C (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart
Principles of Physical Science – SCI 212 (SNHU)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: Various concepts within the physical sciences are discussed ranging from the teachings of Aristotle to the theories of Einstein. Topics include the influence of the scientific method in generating knowledge, the contributions of Galileo, Copernicus, Newton, Kepler and others concerning energy, forces, and motion, gravity, the solar system, and cosmology and relativity.

SOCIAL STUDIES

American Politics – POL 210 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: This course offers a broad introduction to the structure and function of the American political system, including the roles played by the president, Congress, the courts, the bureaucracy, political parties, interest groups, the mass media, and state and local governments in the policy-making and electoral processes, with a special emphasis on how the efforts of the framers of the Constitution to solve what they saw as the political problems of their day continue to shape American national politics in ours. The format of our class sessions will combine lecture with class discussion. This course has no prerequisites.

Applied History – HIS 200 (SNHU)
Credits 1
Estimated Completion Time 1 segment/ 16-18 weeks
Overview: The application of history in our daily lives is not always apparent. However, studying the past is imperative for informing our understanding of society today. Armed with this informed understanding, we are transformed into effective citizens and public agents. In this course, students will explore how history has shaped the role of the citizen in America. Ultimately, historical perspectives will be utilized to understand a topic relevant to American society today.

Applied Social Sciences – SCS 200 (SNHU)
Credits 1
Estimated Completion Time 1 segment/19 weeks
Overview: Social scientists consider a number of factors when deciding to invest time and resources into investigating a problem. Students engage in inquiry-based learning by selecting a current issue and exploring it from the perspective of social scientists (psychologist, sociologist, anthropologist etc.). Students use a systematic approach to engage in an evidence-informed investigation pertaining to a current issue.

Criminal Justice – JUS 101 (SNHU)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: The course covers the nature, scope and impact of crime in the United States, independent and interdependent operations and procedures of police, courts and corrections, and introductory theories of crime and delinquency. Course introduces the justice model in a systematic way whereby students delve into the numerous components of the justice system including law enforcement, legal and judicial process and correctional operations. Career opportunities will be fully covered throughout the course.

Introduction to Psychology – PSYC111W (eStart)
Credits 1
Estimated Completion Time 1 semester/ 16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart
Perspectives in History – HIS 100 (SNHU)
Credits 1
Estimated Completion Time 1 segment/16-18 weeks
Overview: More than just dates, names, and places, history is the study of the human condition. It seeks to understand human behavior through the thoughtful examination of different types of historical sources. The study of history is a living subject, always changing as new discoveries and interpretations are presented. This course examines the process of investigating and writing about history through analysis of sources and the presentation of this analysis as an argument. Through this exploration of historical investigation, students will develop a holistic perspective on the contemporary relevance of history and their responsibility to participate and engage in such discourse.

US History 1: 1607-1865 – HIS 113 (SNHU)
Credits 1
Estimated Completion Time 1 segment/16-18 weeks
Overview: The first half of the United States history survey course covers the period from the founding of Jamestown to the end of the Civil War. The development of regionalism and its effect on the coming of the Civil War provides the framework for the investigation. Required for majors in history and social studies education with a concentration in history.

WORLD LANGUAGE

Introduction to Music – MUSC105C (eStart)
Credits 1
Estimated Completion Time 1 semester/16-18 weeks
Overview: To view course syllabi and register for an eStart course, visit http://www.ccsnh.edu/estart