

UTVA

2019 / 2020

COURSE

CATALOG





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24 CREDITS TO GRADUATE

ENGLISH LANGUAGE ARTS: 4 CREDITS

English 9

English 10

English 11

English 12

FINE ARTS: 1.5 CREDITS



PHYSICAL EDUCATION - 1.5 CREDIT

PE Skills - .5 credit

Fitness for Life - .5 credit

Lifetime Activities - .5 credit

HEALTH: .5 CREDIT



CTE: 1 CREDIT



COMPUTER TECHNOLOGY: .5 CREDIT



FINANCIAL LITERACY: .5 CREDIT



ELECTIVE CREDITS: 5.5 CREDITS

SCIENCE: 3 CREDITS

Physical Science

Biological Area

Elective Science

SOCIAL STUDIES: 3 CREDITS

Geography - .5 credit

World - .5 credit

US History - 1 credit

Government - .5 credit

Elective - .5 credit



TOTAL: 24 CREDITS

ENGLISH

ENGLISH 9

9th Grade English

0.5 per semester, 1 per school year

Freshman English is a comprehensive English course of literature, composition, and language, including listening and speaking. The study of literature includes reading and comprehending a wide variety of literary forms including short stories, nonfiction, poetry, and drama. The course offers supportive reading strategies for a variety of purposes. This course also focuses on the writing process through response to literature. The study of language targets usage, mechanics, and strategies for vocabulary development integrated into literature and composition components. In addition, students will have the opportunity to collaborate and exercise leadership skills while working as teams to complete coursework.

AMERICAN LITERATURE

11th Grade English

0.5 per semester, 1 per school year

In this genre-based course, students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature, including short stories, poetry, drama, and novels. Students refine their skills of written expression by writing memoirs, persuasive essays, research essays, workplace documentation, and more. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.



ENGLISH 10

10th Grade English

0.5 per semester, 1 per school year

Students in English 10 will comprehend literature with a purpose through the interpretation of symbols and imagery. Students will learn to appreciate the power of language by examining how important ideas are expressed and analyzing medium and message while strengthening writing skills.



ENGLISH CONT..

BRITISH & WORLD LITERATURE

12th grade English
0.5 per semester, 1 per school year

The British and World Literature course will help students sharpen their reading comprehension skills and analyze important themes in classic and modern works of British and World Literature, including short stories, poetry, drama, and novels. Students will refine their skills by writing narratives, research, and more. They will develop vocabulary skills and refresh their knowledge of grammar , usage, and mechanics (K12.com).



CREATIVE WRITING A & B

12th Grade English
0.5 Credit Each

In this course, students will explore a range of creative writing genres, including fiction, poetry, and creative nonfiction. Students will study examples of writing through classic and contemporary selections and will apply that knowledge and understanding to their writing. In addition, students will develop an intimate understanding of the writing process and its application to various projects. As students move through the course, they will understand and evaluate the writings of others, and be able to apply the evaluation criteria to their own writing. There are two sections of this course available.



JOURNALISM

12th Grade English
0.5 Credit

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

ENGLISH CONT..

ENGLISH 1010/2010 (CE)

3 Credits (College) 1 Credit (UTVA)

To qualify for this course, students must have a cumulative GPA of 3.5 or better. Students must demonstrate proficiency on at least one of the assessments noted below:

English ACT placement score of 17 or higher AND an ACT Reading placement score of 17. OR an Accuplacer English placement score of 76 or higher AND an Accuplacer Reading placement score of 66 or higher. OR an SAT English placement score of 450 AND an SAT Reading placement score of 420 or higher.



MATH

PRACTICAL MATH

0.5 credit per block, 1 total credit for Blocks A and B

This class looks at math in a practical way. All the math done in this course will help students in their everyday lives. Students will learn how to analyze and make sense of data and statistics, learn to use math to model and understand real-life situations, and learn to use math to manage your finances by creating budgets, saving, etc. This course is all about the math students need to know for their every day lives.

INTEGRATED MATH 1

0.5 per semester, 1 per school year

In this course we will simplify expressions, solve systems of linear equations, learn basic geometric terms and logic, reasoning, and proofs. We will learn about parallel and perpendicular lines and apply what we learn to triangles and quadrilaterals. We will explore exponents and square roots and further cement our graphing abilities by graphing both linear and exponential equations. This course is required for high school graduation.

INTEGRATED MATH II

0.5 per semester, 1 per school year

Prerequisite is Integrated Math 1

Integrated Mathematics II, a second-year high school math course, focuses on extending the number system to include irrational and complex numbers, as well as computation with quadratic polynomials. The course continues with quadratic expressions, equations, and functions, including making comparisons to their linear and exponential counterparts, covered in Math I. The course also introduces conditional probability as a way to make better decisions when given limited information. Geometry topics include similarity, right triangle trigonometry, and volume. Students use the tools of analytic geometry, synthesizing algebra and geometry concepts, to describe circles.

INTEGRATED MATH III

0.5 per semester, 1 per school year

Prerequisite is Integrated Math 2

This course covers statistics, polynomials, rational functions, radical functions, exponentials, logarithms, trigonometry, and modeling.

MATH CONT...

PRE-CALCULUS

0.5 per semester, 1 per school year

This course covers an analysis of functions including quadratics, polynomials, rational, radical, exponential, and logarithmic, right triangle trigonometry, graphs of trigonometric functions, laws of sine and cosine, trigonometric identities, matrices, conics, polar coordinates, and complex numbers.



MATH 1030 (CE)

3 Credits (College) 1 Credit (UTVA)

To qualify for this course, students must have a cumulative GPA of 3.5 or better. Students must demonstrate proficiency on at least one of the assessments noted below:

Fulfils General Education Mathematics requirement for students in Fine Arts, Liberal Arts and other degrees. Focuses on development of analytical problem solving skills through the application of various mathematical concepts to real-life problems. Topics include logic; financial math; problem solving; numeration systems; geometry; measurements; probability; statistics; and modeling with algebra. A class presentation is required for this course. Students are cautioned to check degree and/or transfer requirements before taking this course. Course fee required.

The chalkboard contains several handwritten mathematical expressions and diagrams:

- A top row of text includes "dt qfact", "f(t)", "t(t)", "es(t)", "Tn", "Tp", and "N = N".
- A large equation on the left is $\frac{ds}{dt} = T_b \alpha e^{(\mu - N)(t - es)} s + f - N - \frac{s}{T_p}$.
- An equation below it is $\frac{s}{P_t} = \frac{T_p k_o}{\ln(T_p) - \ln(s)}$.
- A diagram on the right shows a rectangle with width labeled "T_p" and height labeled "s". Inside the rectangle, there is a smaller rectangle with width labeled "es". Below the main rectangle, the inequality "s <= es" is written.
- On the far right, there is a bracketed expression "N = N" and below it, "P_t = (m)".

SCIENCE

BIOLOGY

0.5 per semester, 1 per school year

In this course we will study biological concepts that relate to the study of living organisms. This course will introduce cell structures and physiology, inheritance, evolution, and classification.

Topics will include: the study of life, the chemical foundation of life, biological macromolecules, cell structure, structure and function of plasma membranes, metabolism, cellular respiration, photosynthesis, cell reproduction, meiosis and sexual reproduction, Mendel's experiments and heredity, DNA structure and function, genes and proteins, evolution and the origin of species, classification, ecology and the biosphere, and an overview of the human body systems. "

CHEMISTRY

0.5 per semester, 1 per school year

In this course, students explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Computer-based and traditional laboratory techniques are used to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include, but are not limited to: measurement, atomic structure, electron configuration, the periodic table, bonding, properties of solids, liquids and gasses, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry. The main goal of this course is to provide a solid foundation in the study of matter and its changes. Through many activities students will demonstrate how theory is applicable in laboratory situations. All students will develop good methods of problem solving and proper laboratory techniques.

EARTH SCIENCE

0.5 per semester, 1 per school year

This course covers an analysis of functions including quadratics, polynomials, rational, radical, exponential, and logarithmic, right triangle trigonometry, graphs of trigonometric functions, laws of sine and cosine, trigonometric identities, matrices, conics, polar coordinates, and complex numbers.

SCIENCE CONT...

FORENSIC SCIENCE

0.5 Credit

This course is designed to introduce students to the basic concepts in Forensic Science, beginning with historical perspectives and covering the use of forensics to investigate and solve crimes. Units include history, crime scene evaluation, the crime lab, trace evidence, decomposition, blood and DNA. Topics covered can sometimes be intense.



ANATOMY AND PHYSIOLOGY

0.5 per semester, 1 per school year

This course is designed for students pursuing medical and health related careers or for those who wish to gain a better understanding of the human body that can be applied to everyday life. Areas of study include basic body chemistry, tissues, anatomy and physiology of all body systems, diseases and medical terminology. Instruction includes intermediate anatomy and physiology, diseases and disorders, and medical ethics.



ENVIRONMENTAL SCIENCE

0.5 Credit

In this block course we learn about different aspects of environmental science. This includes the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies in each unit. Students will gain a better understanding of the environment that they live in and how the decisions we make affect it.



VET SCIENCE

0.5 Credit

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 examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases affect not only the animals around us, but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

SCIENCE CONT...

GEOLOGY 1010(CE)

3 Credits (College) 1 Credit (UTVA)

To qualify for this course, students must have a cumulative GPA of 3.5 or better. Students must demonstrate proficiency on at least one of the assessments noted below:

Fulfills Physical Science General Education requirement. Focuses on the physical dynamics of the natural environment, delineating its geosphere, hydrosphere, atmosphere, and biosphere components, and their global patterns of interaction. Highlights the processes of science that underpin this systemic view of the world. Emphasizes issues of resource availability, along with their political and social ramifications. Particular emphasis is placed on the challenges natural hazards present to civilization, worldwide. The extraordinary geology of the region surrounding DSU is featured in many textbook and lecture examples. One field trip required.



SOCIAL STUDIES

WORLD HISTORY A

0.5 Credit

This course is an overview of World History from beginnings of civilization to the beginning of modern times. Students will learn about the major political, economic, social, cultural and technological achievements of different civilizations around the world. Students will analyze primary sources and learn historical thinking skills while they are learning about ancient civilizations.

US HISTORY A

0.5 Credit

Beginning with the pre-historic peoples of the American continent, students explore the events, places, and people leading up to the Civil War and Reconstruction. Students will read *The American Odyssey: A History of the United States* and complete checkpoints and quizzes. Students will learn how to think like historians. They will learn how to read, source, contextualize, and corroborate primary sources. They will demonstrate these skills by completing written assignments.

WORLD HISTORY B

0.5 Credit

This course is an overview of Modern World History, from the Age of Exploration to the contemporary world. Students will focus on the changes in cultures as the world became more globally connected. Students will learn about the people, governments, and events that have shaped the world we live in today.

US HISTORY B

0.5 Credit

The technological, political, economic, geographical, and social changes that marked the United States since the Turn of the Century are explored. This exploration will culminate with the events surrounding 9/11 and the War on Terror. Students will read *The American Odyssey: A History of the United States* and complete checkpoints and quizzes. Students will learn how to write like historians. They will learn how to compose a thesis statement; support arguments with primary source evidence; make a counterclaim and rebuttal; and provide citations. They will demonstrate these skills by writing an argumentative paper.

SOCIAL STUDIES

U.S. GOVERNMENT AND POLITICS

0.5 Credit

This course begins with an introduction into the history of our Republic. Students will read content lessons and complete quizzes, including the US Civics Test. The content explores the principles and institutions of government. It delves into the underpinnings of the Constitution and its utilization by the Legislative, Executive, and Judicial branches of government. It investigates the political beliefs and behaviors of its citizenry and the institutions that link them to state and national representatives. It studies congressional policy-making and the primary source documents that inform these policies. Students will learn how to read comprehensively, to think analytically, and to reason logically. They will demonstrate these skills by completing written assignments.

PSYCHOLOGY

0.5 Credit

In this course, students investigate two questions: (1) Why are people the way that they are? and (2) why do they do the things they do? This course is an overview of concepts, key ideas and theories within psychology. Unit topics include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

GEOGRAPHY

0.5 Credit

This course addresses key concepts of physical and cultural geography and focuses on basic themes of world geography: location, place and human interaction with the physical environment; impact of human movement, ideas, and things; and comparisons within and between regions. Students will use critical, causal, interpretive and reflective thinking skills through observation, reading, writing, listening, speaking, and problem solving.

ECONOMICS

0.5 Credit

Students are introduced to the basics of economic principles, and learn how to think like economists. They explore different economic systems, including the American free enterprise system, analyze and interpret data, and consider economic applications in today's world. From economics in the world of business, money, banking, and finance, students see how economics is applied both domestically and globally. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

SOCIAL STUDIES CONT...

SOCIOLOGY I

0.5 Credit

Students will learn about how people within a culture interact, organize and learn from each other. Students will learn about key ideas through the lens of each of the three sociological perspectives. Unit topics include culture, sociological perspectives, deviance, social structure and groups.



SOCIOLOGY II

0.5 Credit

In this second introductory course, students will continue to learn about how social institutions affect people's daily lives. Students will learn about the family, religion and education, government and economic systems, cities, social movements, and problems of mass society. Students will learn various theories and key terms and are asked to reflect on how the topics connect to their own lives.



DIRECTED COURSEWORK

FINE ARTS

FINE ART A

0.5 Credit

Whether you have never touched a paintbrush, or consider yourself a Michelangelo in the making, this class is just right for you! We will travel through time and explore the symbolism behind cave paintings, ancient Egyptian architecture, Greek and Roman sculpture, and Renaissance masterpieces. You will learn the basic elements and principles of art, and the techniques it has taken humans lifetimes and generations to master. Pick up the torch and give art a try (or advance your skills further). I promise this is a safe environment where it's OK to make mistakes, ""To err is human; to forgive, divine"" (Alexander Pope). In this class, you will explore drawing, painting, sculpture and have an opportunity to create an artwork based on the Culture of your choice. You'll soon learn there is more to art than meets the eye!"

FINE ART B

0.5 Credit

Artists are visionaries and rebels! In this class, we will reveal the challenges modern artists had to rise above in order to have their voices heard. You have a voice, a message to share with this world, and one of the goals of this class is to cultivate the courage needed to express yourself! It took a lifetime of dedication for artists such as Pablo Picasso, Vincent van Gogh, and Andy Warhol to become the accomplished artists they are! Everyone must start somewhere. This class will provide a safe space to create a drawing, a sculpture, a painting, and a multimedia artwork. Each artwork will be inspired by a specific artist and period; however, you will put your personal spin on it and express your own message.

3D ANIMATION

0.5 Credit

Bring your models to life through the process of animation! Animation is just the rapid succession of a sequence of poses modeled onto different frames. If you were doing it by hand, you'd have to draw every single frame. Animation software allows you to create keyframes, while the program automatically fills in the poses in between each keyframe. We'll animate a bouncing ball, construct a creature's walk cycle, and generate special effects like fireworks and explosions!

IMAGE DESIGN

0.5 Credit

Have you ever wondered how graphic artists manipulate photographs to create surreal effects that look realistic? Would you like to learn? This is the class for you!



DIRECTED COURSEWORK

FINE ARTS CONT...

DIGITAL ARTS I

0.5 Credit

This is an advanced course for students who are serious about pursuing a career in Digital Media. You will learn to use a complicated, mathematically-based, VECTOR software program that professionals use to design logos, t-shirts, billboard signs, and magazine graphics. At first, the Inkscape software program will seem unnatural; even the best digital drawing students will get frustrated, because it's not intuitive. But, it is brilliant. You can take any graphic design you create in a vector program and resize it as small or large as you like, and it will not lose quality. It will never look pixelated, no matter how close you zoom in! Using a vector-based software program is essential for anyone wanting to create graphics for print, billboards, t-shirts, or websites.

DIGITAL ARTS II

0.5 Credit

This course picks up where Digital Arts I left off. You will continue to hone your vectoring skills, learning many new tips and tricks to create dynamic graphic designs that can be used for print, t-shirts, billboards and websites.

3D MODELING

0.5 Credit

"When you hear 3D modeling, hopefully you think of your favorite Pixar or Disney animation feature film. 3D Modeling is the process of building characters, objects, and environments within a 3D software program. 3D models are not only useful in the entertainment industry; they have many applications in the fields of engineering, architecture, and video game design! Before you rush into this class, take a look at this video and make sure you know what you're getting into!

DIGITAL PHOTOGRAPHY

0.5 Credit

You're probably already taking photographs with your phone, or perhaps you have a fancy DSLR camera, but you don't know how to use the manual settings? Whether you're using a cell phone camera, a pocket camera, or a DSLR, this class will take your photography skills from beginner to expert! If you're already an expert, take this opportunity to play your edge- bring it! Show us what you're capable of! You don't need a DSLR to be successful in this class, but a creative mindset and a sense of adventure will take you far!

DIRECTED COURSEWORK

FINE ARTS CONT...

ADVANCED COMMERCIAL PHOTOGRAPHY

0.5 Credit

Prerequisite: Digital Photography

This course is designed for students who want to further enhance their photographic knowledge and abilities. It is an application of the skills learned in Digital Photography with an emphasis on professional jobs and assignments used in commercial photography. A portfolio of each student's work is expected at the end of the course.

CAMERA REQUIREMENT: Since there is an industry standard for this type of work, access to a Digital SLR camera is required for Commercial Photography course.

SOFTWARE REQUIREMENT: Adobe Photoshop, Adobe Lightroom

MUSIC APPRECIATION

0.5 Credit

This course introduces students to the history, theory, and genres of music. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world. The course presents modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the relationship between music and social movements and reveals how the emergent global society and the prominence of the Internet are making musical forms more accessible worldwide.



DIRECTED COURSEWORK

CTE/ELECTIVES

JAVA I & II

0.5 Credits Each

Welcome to the Java Programming MindTap Course! This text is organized into 16 units that provide the beginning programmer with a guide to programming concepts and the Java language. The writing is non-technical and emphasizes good programming practices. You'll learn fundamental programming concepts, including decision making, looping, and classes, with the support of practical business examples. Text explanation is interspersed with ample code examples and videos, and Codevolve labs are included in each unit to give you real-time feedback on your work. After working through the units, you'll be able to build useful programs and will understand the basics of structured and object-oriented programming techniques.

Course Objectives

Describe fundamental programming concepts

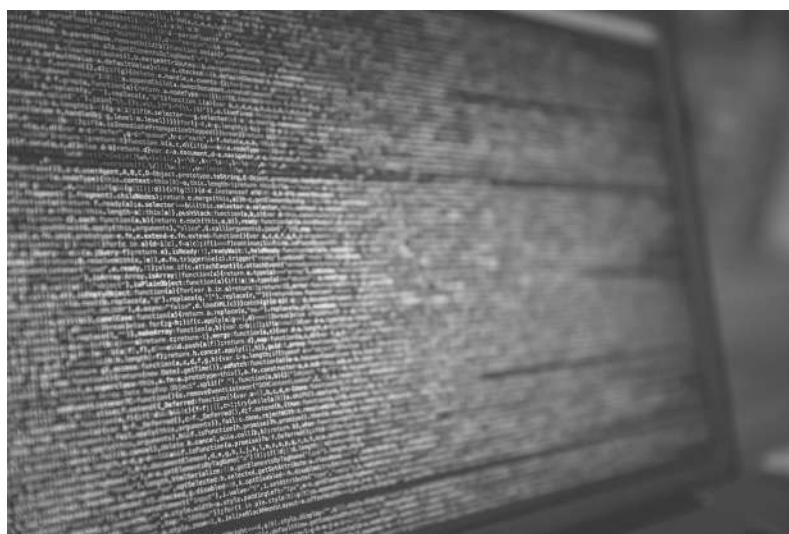
Demonstrate ability to build programs

Apply basic structured and object-oriented programming techniques

PROGRAMMING LOGIC AND DESIGN

0.5 Credit

Welcome to the Programming Logic and Design MindTap Course! This text is organized into 14 units that provide the beginning programmer with a guide to developing structured program logic. The writing is non-technical and emphasizes good programming practices. You'll learn fundamental programming concepts, including decision making, looping, and classes, with the support of practical business examples. Text explanation is interspersed with flowcharts and pseudocode so you can become comfortable with these logic development tools. After working through the units, you'll be able to "think like a programmer" and will be well-poised to begin learning a language such as Python.



DIRECTED COURSEWORK

CTE/ELECTIVES CONT...

CRIMINOLOGY

0.5 Credit

In the modern world, many citizens share a concern about criminal behaviors and intent. This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives; explore the categories and social consequences of crime; and investigate how the criminal justice system handles criminals and their misdeeds. The course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors from arrest to punishment help shape the criminal case process?



EXPLORING COMPUTER SCIENCE

0.5 Credit

Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.



DIRECTED COURSEWORK

CTE/ELECTIVES CONT...

MEDICAL TERMINOLOGY

0.5 Credit

This course provides students with an in-depth study of medical terminology. The course will focus on learning prefixes and suffixes and building words associated with the human body, medicine and healthcare industries. It is designed to prepare students for college medical classes and for employment in the healthcare professions.



WORKPLACE SKILLS

0.5 Credit

Students explore their options for life after high school and implement plans to achieve their goals. They identify their aptitudes, skills, and preferences, and explore a wide range of potential careers. They investigate the training and education required for the career of their choice, and create a plan to be sure that their work in high school is preparing them for the next step. They also receive practical experience in essential skills such as searching and applying for college, securing financial aid, writing a resume and cover letter, and interviewing for a job.

CULINARY ARTS

0.5 Credit

Students will be trained for career opportunities in the food service/culinary arts industry. Students will have the opportunity to learn and practice safety and sanitation procedures, and to use and maintain food service equipment. They will perform quantity food preparation as it relates to catering, bakery, restaurant and hospitality business operations. This course will strengthen comprehension of concepts and standards outlined in Sciences, Technology, Engineering and Math (STEM) education. Student leadership and competitive events (FCCLA) may be integrated into this course. Must have access to a kitchen and all basic kitchen tools & equipment.



DIRECTED COURSEWORK

CTE/ELECTIVES CONT...

SPANISH I

0.5 per semester, 1 per school year

Students begin their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. An additional handbook reinforces grammar by aligning Spanish grammar topics with their English counterparts. Cultural information covers major Spanish-speaking areas in Europe and the Americas. This course will run for two semesters, and has no prerequisite courses.

SPANISH II

0.5 per semester, 1 per school year

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning; understand common vocabulary terms and phrases; use a wide range of grammar patterns in their speaking and writing; participate in conversations and respond appropriately to conversational prompts; analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries; and take frequent assessments by which their language progression can be monitored. By Semester 2, the course is conducted almost entirely in Spanish.

DIRECTED COURSEWORK

CTE/ELECTIVES CONT...

GAME DESIGN

0.5 Credit

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.

Unit 1: From Tut to Mario: A History of Gaming

Unit 2: What's in a Game?

Unit 3: Game Pieces

Unit 4: Let's Talk Shop About Game Mechanics!

Unit 5: Developing a Game Design Document

Unit 6: Narratology: Storytelling in Games

Unit 7: The Business of Video Game Design

Unit 8: Let's Make a Game!

MARKETING I

0.5 Credit

Students learn the foundations and functions needed to successfully market goods, services, and ideas to consumers. Professional development, customer service, and social media are presented as keys to students' success. While students study business, economics, selling, human relations, communications, logistics, promotion, product planning, and pricing, they also see marketing as a career choice.



ENTREPRENEURSHIP

0.5 Credit

In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a nonprofit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business ideas, attract investors, market their business, and manage expenses.

DIRECTED COURSEWORK

CTE/ELECTIVES CONT...

HOSPITALITY AND TOURISM

0.5 Credit

This course introduces the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Students 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.

CUSTOMER SERVICE

0.5 Credit

The focus of this course is for students to gain an understanding of the skills, aptitudes, and thought processes necessary to achieve customer satisfaction and loyalty in a variety of settings. Students will learn and develop customer service strategies as well as the skills and abilities necessary for working with customers; this will include helping customers to make decisions as well as resolving concerns and issues that may arise.



DIRECTED COURSEWORK

FINANCIAL LITERACY

FINANCIAL LITERACY

0.5 Credit

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 saving, and investing. This course addresses issues surrounding consumer protection, risk management, identity theft and how careers and educational choices influence personal income and finances.

FINANCIAL LITERACY 1750 (CE)

3 Credits (College) 1 Credit (UTVA)

To qualify for this course, students must have a cumulative GPA of 3.5 or better. Students must demonstrate proficiency on at least one of the assessments noted below:

Society is placing increasing responsibility on individuals for their financial well-being (e.g., retirement, health care). This course is devoted to building quantitative skills associated with individual financial decision making and analyzing the connection between individual decisions and societal well-being. This course seeks to address the "how" and "why" in personal financial decisions. Topics covered include credit/debt, property insurance, saving, and investing. The course will draw on multiple disciplines. Economics, finance, and applied mathematics are directly addressed. Public financial policy in areas of political science, law, and psychology are also discussed.



P E & HEALTH

PARTICIPATION SKILLS

0.5 Credit

Participation Skills and Techniques is designed to develop competency in up to five different activities. Competency involves the ability to apply the basic skills, strategies, and rules using standardized guidelines or rubrics. This block class offers students instruction in lifetime activities and fulfills one P.E. requirement for high school graduation (.50 credits). Individual, dual, and team sports activities are included, with the emphasis on activities offering lifelong participation opportunities.



LIFETIME ACTIVITIES

0.5 Credit

Individualized Lifetime Activities is designed to offer a higher level of proficiency and more in-depth instruction in up to three different lifetime activities. Improved fitness is a goal of each Individualized Lifetime Activities course. The curriculum is designed to develop competency in up to three lifetime activities. Competency is defined as the ability to apply basic skills, strategies, and rules using standardized guidelines or rubrics. This class fulfills one P.E. requirement for high school graduation (.50 credits).

FITNESS FOR LIFE

0.5 Credit

Fitness for Life is an individualized, concepts-based, block course designed to give students the knowledge and skills necessary to self-assess, create, conduct, evaluate, and redesign personal fitness programs. It is required of all students and there are no substitutions, including participation in athletics. Fitness for Life may be taken anytime during grades nine through twelve, but it is strongly recommended that students take the class in the tenth-grade year. The course is a combination of classroom and activity-based learning activities with a focus on proper nutrition and the mastery of skills and concepts necessary for students to become accomplished monitors of their personal lifetime fitness. Through participation, students learn to compare the fitness benefits in a variety of individual and team activities. This class fulfills one P.E. requirement for high school graduation (.50 credits).



SKILLS FOR HEALTH

0.5 Credit

In this course we will discuss the different aspects of health including mental, social, emotional, physical, environmental, and spiritual. We will also discuss important topics such as substance abuse, prevention of disease, and the life cycle.

CTE PATHWAYS

PROGRAMMING AND SOFTWARE DEVELOPMENT

- Computer Programming I
- Computer Science Principles
- Computer Programming II
- Gaming Development Fundamentals
- Exploring Computer Science I
- Workplace Skills

DIGITAL MEDIA

- Digital Media I
- 3D Graphics
- Digital Media II
- Gaming Development Fundamentals
- Workplace Skills

HOSPITALITY AND TOURISM

- Marketing 1
- Hospitality and Tourism
- Customer Service
- Entrepreneurship
- Workplace Skills

COMMERCIAL PHOTOGRAPHY

- Basic Digital Photography
- Advanced Commercial Photography
- Digital Media I
- Workplace Skills

CUSTOMER SERVICE AND MANAGEMENT

- Customer Service
- Economics
- Entrepreneurship
- Workplace Skills

MEDICAL ASSISTANT

- Health Science, Introduction
- Medical Anatomy and Physiology
- Medical Terminology
- Workplace Skills

FUNCTIONAL SKILLS COURSES

CS BASIC WORLD HISTORY

0.5 per semester, 1 per school year

This course is designed to look at general social studies and the common knowledge and skills expected from most Americans. This course is specially designed instruction, and students must be approved to take this class by an IEP team.



CS FUNCTIONAL ENGLISH LANGUAGE ARTS

0.5 credit per semester, 1 per school year

This course is designed for self-contained special education students. It focuses on the Essential Elements, which are adapted core standards for reading and writing. The instruction focuses on building literacy skills that will extend to multiple environments and encourage deeper thinking and communication. Students will be graded on attendance, exit tickets, work samples, quarterly reviews, and presentations.

CS FUNCTIONAL MATH

0.5 per semester, 1 per school year

This course teaches math skills based on essential elements and life skills using necessary math skills. In order to enroll in this course and IEP team decision will state needed individualized instruction



EE BIOLOGY

0.5 per semester, 1 per school year

This course is designed to look at Biology as it really matters in your life. Hands on, interactive, and fun, it's also specially designed to follow the Extended Core Biology Standards. Students must be approved to take this class by an IEP team.

FUNCTIONAL SKILLS COURSES

TRANSITION SKILLS SPED

0.5 per semester credit

Students will learn necessary transition skills to prepare them for life after high school.

Students will learn self-awareness, self-advocacy, career exploration, recreations/leisure skills, job skills, career exploration, community awareness, and independent skills.

Students will be responsible to complete transition assessments to help identify their interests, skills, and future goals. Class activities will involve completing self-evaluations, watching safe share videos, reading and listening to scenarios, participation in class discussions, and participation in outings related to transition.

Students will be graded on work samples, daily exit tickets, quarterly review exit tickets, transition assessments, attendance, and presentations.

