



A Grapevine-Colleyville ISD Virtual Academy

Plan of Study/Course Descriptions 2019-2020

Our School is Virtual...But the Learning, Relationships and Innovation is Real.

Foundation High School Program

Students entering **Grade 9 in the 2014-2015 school year and thereafter** shall enroll in the courses necessary to complete the curriculum requirements for the Foundation High School Program **and the curriculum requirements for at least one endorsement.**

A student may graduate under the foundation high school program without earning an endorsement if, after the student's sophomore year:

- (1) the student and the student's parent or person standing in parental relation are advised by a school counselor of the specific benefits of graduating from high school with one or more endorsements; and
- (2) the student's parent or person standing in parental relation files with a school counselor written permission, on a form adopted by the agency, allowing the student to graduate under the foundation high school program without earning an endorsement

Coursework required for the Foundation High School Program

English Language Arts - Four credits

- English I • English II • English III • English IV

Math - Three credits

- Algebra I • Geometry • Algebra II or other advanced math course

Science - Three credits

- Biology • IPC or Advanced Science Course • Advanced Science Course

Social Studies - Four credits

- U.S. History • U.S. Government • Economics • World Geography • World History

Physical Education - One credit

Fine Arts Electives - One credit

Languages Other Than English - Two credits

Two credits in the same language

Speech – 1/2 credit

- Communications Applications

Health - 1/2 credit

Technology - One credit

Electives - Six credits

iUniversity Prep Endorsements

(All Endorsement Pathways require English IV and Algebra II)

Requirements include a 4th math and 4th science inclusive of or in addition to all of the foundation plan requirements AND a requirement that four (4) of the required 26 credits must be in a coherent sequence and content specific to the Endorsement Area being pursued by the students.

Courses used to satisfy an endorsement may also be used to satisfy foundation plan requirements, including core courses or elective courses.

Endorsement Pathways at iUniversity Prep:

1. Multi-disciplinary
 - a. Option 1 – Foundation 4X4 - 4 credits in each of the 4 Foundations areas to include English 4, Chemistry and/or Physics
 - b. Option 2 – Advanced Courses – Students may choose any combination to equal 4 credits of dual credit and/or advanced placement courses.
2. STEM
 - a. Computer Science – a coherent sequence of three or more courses for four or more credits that include 2 from the Computer Science cluster and one “advanced course.”
 - b. Math -5 math credits- Algebra II and two additional courses for which Algebra II is a pre-requisite
 - c. Science – 5 science credits – Physics and two additional courses from the list provided in TAC 19 Ch. 74.13 (e) (4)
3. Arts and Humanities
 - a. Social Studies – 5 credits of social studies
 - b. Foreign Language 4X4 – 4 years of the same Foreign Language
 - c. Foreign Language 2X2 – 2 years of 1 Foreign Language and an additional 2 years of a 2nd foreign language

Performance Acknowledgements

Advanced Coursework

12 hours of dual credit or locally articulated courses, with a grade of a “B” or higher

Bilingualism/Bi-literacy Coursework

Completing all ELA Requirements with a grade of a “B” or higher

AND

- Three credits in the same “Language other than English” with a grade of a “B” or higher

OR

- Successful completion of a Level 4 course in a “Language other than English” with a grade of a “B” or higher

OR

- Completion of at least three credits in foundation subject area courses in a language other than English with a grade of a “B” or higher

OR

- A score of a “3” or higher on a College Board AP Exam for a “Language other than English”

OR

- Performance on a national assessment of language proficiency in a “Language other than *English*”

Advanced Examination

A score of 3 or higher on a College Board AP Exam

College Readiness Examination

- Commended Scholar score or higher on the PSAT/NMSQT for either the NHRP or NASP

OR

- College Readiness Benchmark score on at least two of the subject tests on the ACT-PLAN exam

OR

- Combined Critical Reading & Mathematics Score of at least 1250 on the SAT

OR

- Composite score of at least 28 on the ACT (excluding the writing sub-score)

Grapevine Colleyville ISD Local Graduation Requirements

26 credits required at minimum for graduation

- ½ Credit in Speech (Communications Applications)
- ½ Credit in Health
- 1 Credit in PE
- 1 Credit in Fine Arts
- 1 Credit in Technology Applications (A variety of CTE Courses or Tech. App. Courses)
- 2 Credits in the same LOTE
- A minimum of four social studies credit to include the following:
 - World Geography, World History, US History, Government, Economics
- A minimum of four English courses.
- English IV will be required for all Endorsement areas
- A minimum of four math courses for all endorsement areas
- Algebra II will be required for all Endorsement areas
- A minimum of four science courses for all endorsement areas
- Four Elective Credits

GPA / Class Ranking

Academic Achievement - Class Ranking

CLASS RANK

Class rank shall not be calculated or reported except for students in the top ten percent of a given class as required by state law. The District shall provide students ranked in the top ten percent a certification of class rank containing the student's numerical rank in class. The District shall not report class rank on the student's academic transcript.

REPORTING PERIOD

Beginning at the end of the fall semester of the 2013-2014 school year, class rank shall be determined and reported to the top ten percent of students.

Students in the top ten percent of the senior class shall be notified of their exact class rank to be eligible for automatic college admissions.

CALCULATION FOR STUDENTS ENTERING GRADE 9 IN THE 2013-2014 SCHOOL YEAR AND BEYOND

For the students who entered grade 9 in the 2013-2014 school year, the weighted GPA shall include semester grades earned in all high school credit courses taken in grades 9-12 only, except as excluded in this policy.

EXCLUSIONS

The calculation of weighted GPA shall exclude grades earned:

1. In the summer school session between grades 8 and 9.
2. In summer school for the purpose of credit recovery;
3. Through credit by examination, with or without prior instruction; or
4. Through a traditional correspondence course. The District shall not exclude distance-learning courses taken through the Texas Virtual School Network (TxVSN).

GRADING SCALE

University Prep uses a weighted 5.0 grade point system to determine GPA and class rank. Dual credit courses are calculated as Pre-AP courses.

| GRADING SYSTEM | | | | |
|---|-------|------|--------|---------|
| The school uses a weighted grade point system to determine rank in class. | | | | |
| | Grade | AP | Pre-AP | Regular |
| A | 100 | 6.25 | 6.0 | 5.0 |
| A | 99 | 6.15 | 5.9 | 4.9 |
| A | 98 | 6.05 | 5.8 | 4.8 |
| A | 97 | 5.95 | 5.7 | 4.7 |
| A | 96 | 5.85 | 5.6 | 4.6 |
| A | 95 | 5.75 | 5.5 | 4.5 |
| A | 94 | 5.65 | 5.4 | 4.4 |
| A | 93 | 5.55 | 5.3 | 4.3 |
| A | 92 | 5.45 | 5.2 | 4.2 |
| A | 91 | 5.35 | 5.1 | 4.1 |
| A | 90 | 5.25 | 5.0 | 4.0 |
| B | 89 | 5.15 | 4.9 | 3.9 |
| B | 88 | 5.05 | 4.8 | 3.8 |
| B | 87 | 4.95 | 4.7 | 3.7 |
| B | 86 | 4.85 | 4.6 | 3.6 |
| B | 85 | 4.75 | 4.5 | 3.5 |
| B | 84 | 4.65 | 4.4 | 3.4 |
| B | 83 | 4.55 | 4.3 | 3.3 |
| B | 82 | 4.45 | 4.2 | 3.2 |
| B | 81 | 4.35 | 4.1 | 3.1 |
| B | 80 | 4.25 | 4.0 | 3.0 |
| C | 79 | 4.15 | 3.9 | 2.9 |
| C | 78 | 4.05 | 3.8 | 2.8 |
| C | 77 | 3.95 | 3.7 | 2.7 |
| C | 76 | 3.85 | 3.6 | 2.6 |
| C | 75 | 3.75 | 3.5 | 2.5 |
| C | 74 | 3.65 | 3.4 | 2.4 |
| C | 73 | 3.55 | 3.3 | 2.3 |
| C | 72 | 3.45 | 3.2 | 2.2 |
| C | 71 | 3.35 | 3.1 | 2.1 |
| C | 70 | 3.25 | 3.0 | 2.0 |
| F | 0-69 | 0 | 0 | 0 |

To determine GPA (Grade Point Average), add the points for each grade received (use correct points for type of class). Divide the total points by the total number of grades. This is the GPA.

TRANSFERRED GRADES

When a student transfers grades for properly documented courses, iUniversity Prep shall assign AP weight to AP and IB course grades; however, the District shall assign Pre-AP weight to transferred Pre-AP, Pre-IB, or honors course grades only if the same courses are offered to the same class of students in the District and if:

1. The district in which the credit was earned has administered an AP or IB exam; or
2. The course is intended to prepare students for a subsequent course in which an AP or IB exam would be administered.

HIGHEST RANKING GRADUATE

The student meeting the local eligibility criteria for recognition, as the valedictorian shall also be considered the highest ranking graduate for purposes of receiving the scholarship certificate from the State of Texas.

VALEDICTORIAN AND SALUTATORIAN

The valedictorian and salutatorian shall be the eligible students with the highest and second highest ranking, respectively. To be eligible for such recognition, a student must:

1. Have been continuously enrolled in iUniversity Prep for the three semesters immediately preceding graduation; and
2. Be graduating after four entire school years of enrollment in high school.

BREAKING TIES

In case of a tie, GPAs shall be calculated to the number of decimal places necessary to break the tie.

STUDENT GRADUATING IN FEWER THAN FOUR YEARS

A student graduating in fewer than four entire school years of enrollment in high school shall not be eligible for recognition as the official valedictorian or salutatorian of a graduating class. However, if a student graduating in fewer than four entire school years of enrollment in high school has a weighted GPA equal to or higher than that of the four year official valedictorian or salutatorian, the District shall recognize the student as the valedictorian or salutatorian of students graduating in one year, two years, or three years, as appropriate.

MIDDLE SCHOOL – GRADES 6 - 8

Middle School is when our students enter a new world of academic growth and personal discovery. iUniversity Prep helps our students see the wonderful potential they possess and the many opportunities available to them.

LANGUAGE ARTS 6 - 8

There are two main goals in this program. One is to sharpen and strengthen students' skills in reading, writing, listening, and speaking while thinking about, discussing, and gaining enduring understandings. The other is to create a sense of curiosity and excitement about literature. Students are exposed to a wide variety of prose and writing styles. Activities are designed to help students understand, analyze, and critique the literature with both online and offline study. They compose both expository and creative compositions and employ test-taking strategies that are effective for different types of learners.

IN SIXTH GRADE Through the literature of authors such as Jane Yolen, Francisco Jiménez, and E.E. Cummings, students ponder such questions as, "What's fair and what's not?"; "What makes a hero?"; and "What makes you who you are?" While exploring the literary genres of informational text, biography, autobiography, persuasive text, poetry, fiction, folktales, nonfiction, and drama, students strengthen their reading and writing skills and vocabulary development.

IN SEVENTH GRADE Through the literature of authors such as Rita Dove, Gary Soto, and Langston Hughes, students think about questions like, "How can we become who we want to be?"; "Whom can we really count on?" and "Who influences us?" While exploring the literary genres of informational text, biography, fiction, persuasive text, nonfiction, folktales, poetry, and historical documents, students strengthen their reading and writing skills and vocabulary development.

IN EIGHTH GRADE Through the literature of authors including Maya Angelou, Yoshiko Uchida, and Nikki Giovanni, students contemplate questions such as, "How do you stay true to yourself?"; "How do you keep from giving up when bad things happen?"; and "What is the American dream?" While exploring the literary genres of autobiography, biography, folktales, informational text, poetry, fiction, drama, persuasive text, and historical text, students strengthen their reading and writing skills and vocabulary development.

PAP Language Arts Courses in all Middle School Grades PAP language arts courses are designed to provide students with opportunity for entry into Pre-Advanced Placement and Advanced Placement courses at the high school level. Grade level TEKS will be taught with an introduction to Pre-AP strategies incorporated throughout the course. Students will engage in learning of the grade level curriculum with increased depth and complexity. Critical thinking and creative problem solving skills are incorporated throughout PAP courses.

MATH 6-8

The middle school math program provides interactive, engaging content that encourages students to think critically, make real-world connections, and collaborate with peers. These courses contain a variety of online instructional resources such as virtual tools, educational games, and tutorials that enable students to manipulate and make sense of mathematical problems. Throughout the program, students reason abstractly and quantitatively, engage in mathematical discussions, strategically apply concepts, and express their reasoning.

Math 6 Students connect ratio and rate to whole number multiplication and division and also use the concepts of ratio and rate to solve problems. In addition, they extend their understanding of dividing fractions and of writing, interpreting, and applying expressions and equations as well as develop an

understanding of statistical thinking.

Math 7 Students build on their knowledge of proportional relationships and operations with rational numbers. They solve real-world problems involving scale drawings, geometric constructions, area, surface area, and volume. Students also draw inferences about populations based on samples.

Math 8 (Algebra Readiness) Students prepare for algebra as they extend their understanding of expressions and equations. They solve linear equations and systems of linear equations, use functions to describe quantitative relationships, and analyze two- and three-dimensional space and figures.

Algebra 1 PAP In this course, students explore the properties of real numbers and apply this knowledge to equations, inequalities, and multi-step equations. Students learn to identify, write, and graph functions and equations, simplify radical expressions, and solve quadratic equations. They learn to factor and perform operations with binomials and polynomials. Students calculate slope and use slope-intercept form to graph linear equations. They also learn to solve systems of equations and inequalities both graphically and algebraically. Offered for qualified students.

PAP Math Courses for all Middle School Grades— PAP math courses are designed to provide students with opportunity for entry into Pre-Advanced Placement and Advanced Placement courses at the high school level. Grade level TEKS will be taught with an introduction to Pre-AP strategies incorporated throughout the course. Students will engage in learning of the grade level curriculum with increased depth and complexity. Critical thinking and creative problem solving skills are incorporated throughout PAP courses.

Accelerated Math 6 This course is designed to prepare students for entry into Pre-AP/AP courses at the high school level. All of sixth and part of seventh grade TEKS objectives are compacted to prepare the student for Accelerated Math in seventh grade. Critical thinking and creative problem solving skills are incorporated throughout this course. Students must possess advanced facility with numbers and have a sincere interest in mathematics as this course moves at a very fast pace.

Accelerated Math 7 This course is designed to prepare students for entry into Pre-AP/AP courses at the high school level. All of eighth and part of seventh grade TEKS objectives are compacted to prepare the student for Pre-AP Algebra I in the 8th grade. Critical thinking and creative problem solving skills are incorporated throughout this course. Students must possess advanced facility with numbers and have a sincere interest in mathematics as this course moves at a very fast pace.

SCIENCE 6–8

The middle school science program was inspired by the foundations of the Next Generation Science Standards (NGSS), which focus on science and engineering practices, disciplinary core ideas, and crosscutting concepts. These science standards are rich in content and practice, and they are arranged in a coherent manner across disciplines and grades to provide all students with an internationally benchmarked science education. In accordance with 21st century skills, the media-rich science courses enable students to engage actively in inquiry-based investigations, STEM (science, technology, engineering, and mathematics) projects, as well as cross-disciplinary and cross-curricular activities. Students make connections, collaborate, and reflect on their learning as they work through the content.

Science 6 Students will explore fundamental concepts in physical science, life and Earth science. The student will review the scientific method and practice the process of completing a lab report. While completing the physical science units, the student will investigate energy and electricity as well as the physical and chemical properties of matter. In the Earth science unit, the student will investigate the forces that have shaped Earth. Throughout the life science units, the student will explore different types of animals and investigate cells and their jobs.

Science 7 Students will explore fundamental concepts in Earth science, physical science and life science. Students will review the scientific method and practice the process of completing a lab report. Throughout the Earth science units, the student will investigate the properties of rocks and minerals, study patterns in Earth's atmosphere, and compare Earth to other bodies in the solar system. Throughout the life science units, the student will describe the structures of living things and explore how living things interact. While completing the physical science units, the student will investigate the physical and chemical properties of matter, compare and explain different types of forces and motion, and describe various forms of energy.

Science 8 Students will explore fundamental concepts in life science, physical science and Earth science. Students will review the scientific method and practice the process of completing a lab report. Throughout the life science units, the student will describe traits and explain how they change, explore the relationships between organisms and their environments, and analyze cycles in nature. Throughout the Earth science unit, the student will study Earth's changes over time and investigate the causes and effects of earthquakes and volcanoes. While completing the physical science units, the student will describe the structure of an atom and identify how atoms combine during physical and chemical reactions, interpret the periodic table, and explain and calculate different forms of motion and force.

PAP Science Courses for All Middle School Grades PAP science courses are designed to provide students with opportunity for entry into Pre-Advanced Placement and Advanced Placement courses at the high school level. Grade level TEKS will be taught with an introduction to Pre-AP strategies incorporated throughout the course. Students will engage in learning of the grade level curriculum with increased depth and complexity. Critical thinking and creative problem solving skills are incorporated throughout PAP courses.

Accelerated Science 6 This course is designed to prepare students for entry into Pre-AP/AP courses at the high school level. All of sixth and the 1st half of seventh grade TEKS objectives are compacted to prepare the student for Accelerated Science in seventh grade. Critical thinking and creative problem solving skills are incorporated throughout this course. Students must possess a sincere interest in science as this course moves at a very fast pace.

Accelerated Science 7 This course is designed to prepare students for entry into Pre-AP/AP courses at the high school level. All of eighth and the 2nd half of seventh grade TEKS objectives are compacted to prepare the student for Pre-AP Biology in 8th grade. Critical thinking and creative problem solving skills are incorporated throughout this course. Students must possess a sincere interest in science as this course moves at a very fast pace.

SOCIAL STUDIES 6–8

An enhanced and technology-enriched social studies curriculum allows students the opportunity to engage with technology and explore history from ancient China, Egypt, and Greece to modern America. To develop 21st century skills, students utilize their critical- and creative-thinking abilities as they communicate and collaborate with peers to connect what they are learning with the world around them.

Social Studies 6th –Modern World Studies - In 6th grade, the student will study the history, geography, and culture of the western hemisphere and the historical period of medieval times to today. In the study of world history, the student will examine political, economic, and social changes from the fifth century to modern times by exploring such topics as the growth of trade, the rise and fall of empires (including the empires in China and Africa), European exploration, and the rise of democracy. The student will make connections between historical events and understand long-term changes and recurring patterns in world history. The student will also examine the relationship between human actions and conditions on Earth. The student will examine such current issues as overpopulation, poverty in developing nations, and problems plaguing cities. All of these issues are studied within the context of world geography.

Texas History 7th - In 7th grade, the student will examine the geography, history, and culture of Texas from 11,000 B.C. to the secession of Texas in 1861. Maps, charts, and primary sources enhance understanding of the Lone Star State's unique history. Historical topics covered include Native American culture, European exploration and settlement, the establishment of the mission system, colonization, revolution, the Republic of Texas period, statehood, and secession. In the 2nd half of the course, the student will explore the history, government, and culture of Texas from 1861 to 2001. Maps, charts, and primary sources enhance understanding of the Lone Star State's unique history. Historical topics covered include the Civil War, Reconstruction, the oil boom, World War I, the Great Depression, World War II, and the Cold War.

Social Studies 8th - US History - In eighth grade, the first segment of American history is focused on precolonial times through the Civil War and Reconstruction. Using a chronological approach, students make connections among historical events and analyze the impact on the American people. They hone their critical-thinking skills in interpreting primary sources, creating and analyzing timelines and graphs, comparing and contrasting multiple viewpoints, and recognizing bias in historical accounts.

PAP Social Studies Courses in all Middle School Grades PAP social studies courses are designed to provide students with opportunity for entry into Pre-Advanced Placement and Advanced Placement courses at the high school level. Grade level TEKS will be taught with an introduction to Pre-AP strategies incorporated throughout the course. Students will engage in learning of the grade level curriculum with increased depth and complexity. Critical thinking and creative problem solving skills are incorporated throughout PAP courses.

ADDITIONAL COURSES AND ELECTIVES 6–8

Art In middle school, students explore how art can be used for design, functionality, or personal expression. Art and artists, from across time and location, and explore how science, math, history, and religion impact art. They study how American and international visual art influences ideas, actions, cultures, and environments. Students use various media and techniques to create two- and three-dimensional visual art projects. Through discussions of art history and criticism, students learn methods to analyze, interpret, and judge artworks.

Business Keyboarding Students begin by learning the functions of all the keys and how to find them quickly. They explore the alphabetic and numeric keyboard, study the history of the keyboard (and new technology), and build speed and accuracy. Proper formatting for various academic and business documents, a discussion on business ethics, and the importance of keyboarding in virtually every career are also covered.

Health and Physical Education With the support of virtual friends, students determine current personal fitness levels and learn to improve those levels. Students also learn safety rules for exercise, how to create equipment from household items, how different activities target different body parts, how to set and reach a goal, and how to be good sports. Activity choices are plentiful, leading students to a healthy and physically active lifestyle. Students keep a log of physical fitness activities so they can monitor and reflect on personal progress.

Exploring Music—a Juilliard eLearning course This course is designed to teach students fundamental musicianship from a Western-Classical approach, while aligning to national music education standards. The course challenges students to improve their listening, notation, analysis, performance, and improvisation skills. With audio, visual, and interactive technologies provided by both The Juilliard School, Connections Education and Grapevine-Colleyville ISD, the course provides a unique and advanced learning experience for students in grades 6–8.

Spanish I This is a high school credit course. Students cover basic vocabulary, grammar, spelling, and punctuation to build a solid foundation for further study. Assignments include engaging in simple conversation, writing paragraphs, and listening to Spanish dialogue. Students also study the history and culture of Spanish-speaking peoples.

Communication Applications This is a high school credit course. Using video tutorials, students study verbal and nonverbal techniques—including those of famous orators—to use when presenting simple and complex ideas and when speaking to a group. Using an audiovisual tool to record their speeches, students learn how to speak persuasively, develop position statements, support their arguments, and think analytically. Brainstorming techniques, media analysis, research skills, and presentation strategies are also discussed.

Technology Applications Students use electronic media and software to apply academic concepts as they create meaningful organizers, projects, and presentations. Students locate, retrieve, and evaluate data in order to construct and analyze databases. They produce presentations on Internet safety, online predators, and cyberbullying. Students become effective communicators and collaborators as they plan, evaluate, and synthesize research emphasizing current issues with technology.

Health This is a high school course. This course covers first aid, the benefits of good nutrition, and the dangers of alcohol and drug use. Students learn how to evaluate their own fitness and nutritional needs and how to make changes that lead to a healthier lifestyle over the long run. Also discussed are strategies for resisting peer pressure and ways fitness can influence self-image and overall well-being.

Touch Systems Data Entry This is a high school course. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

College and Career Readiness The career development process is unique to every person and evolves throughout one's life. Students will use decision-making and problem-solving skills for college and career planning. Students will explore valid, reliable educational and career information to learn more about themselves and their interests and abilities. Students integrate skills from academic subjects, information technology, and interpersonal communication to make informed decisions. This course is designed to guide students through the process of investigation and in the development of a college and career readiness achievement plan. Students will explore college and career areas of personal interest. Students will use this information to explore educational requirements for various colleges and a variety of chosen career paths.

High School – Grades 9 - 12

ENGLISH 9–12

Throughout high school, the aim of English courses is to enable students to analyze and critique written works, think critically, conduct research independently, and understand how their writing relates to the literature they are reading. Throughout each course, students read a wide range of literature, write in a variety of genres, and reinforce and expand their skills in grammar, usage, mechanics, and vocabulary. Students have access to online and offline tutorials, rubrics, and graphic organizers.

English I Classic and contemporary works of American, British, and world literature in a variety of genres are introduced in English 9. Students analyze short fiction, nonfiction, and poetry selections. Students also read and analyze novels and other major literary works. Reading and writing assignments strengthen students' understanding of literary elements in poetry, fiction, and drama; the characteristics of narrative, expository, and persuasive writing; correct grammar and usage; and research skills.

PAP English I This Pre-Advanced Placement (Pre-AP) course is designed to prepare students for success in Advanced Placement (AP) English courses and to meet the unique needs of the district's gifted and talented language arts students. Though built upon the regular English I course, Pre-AP English I offers a differentiated curriculum that includes a wider range and a greater depth of subject matter. Its purpose is to increase the student's effectiveness as a reader, speaker, listener, and writer by emphasizing higher-level and critical-thinking skills and by providing opportunities for creative and productive thinking. Emphasis is placed on quality literature, the exploration of literary themes through writing, and the methods of discourse.

English II The timeless themes in world literature are emphasized in English 10, which includes literature of the Americas, Europe, the Middle East, Asia, the Pacific Rim, and Africa. A classic world literature selection introduces each region, followed by contemporary short fiction, poetry, and drama. Students explore the cultures from which each piece of literature derives and consider the similarities that unite the human family. The survey of world literature includes works by Margaret Atwood, Pablo Nerud and Eugene Ionesco. Students continue to strengthen their mastery of the writing process and compose for various purposes. Skills are further developed, including the research process and oral communication.

PAP English II This Pre-Advanced Placement (Pre-AP) course is designed to prepare students for success in Advanced Placement (AP) English courses and to meet the unique needs of the district's gifted and talented language arts students. Pre-AP English II employs a humanities approach to the study of the hero, integrating the areas of literature, religion, philosophy, political science, art, music, history and encourages higher level thinking skills. Through a study of literary heroes in various arenas (classical, political, and contemporary) students extrapolate ideas through composition; review and refine skills in language, critical thinking and reading comprehension; and explore and develop skills in guided and independent research.

English III Students focus on the literary movements that comprise American literature and trace the chronology of national literature from the early American and colonial period through the contemporary period. Students read selections from the Native American oral tradition, seminal historical documents and essays, in addition to fiction, nonfiction, poetry, and drama. The survey of American authors includes Mar Twain, Ralph Ellison, and Julia Alvarez. Students continue to strengthen and apply higher-level critical reading, literary analysis, and research skills through the use of visual organizers and note-taking strategies.

English IV Students study classical and contemporary British literature from the Anglo-Saxon period to the modern era. They examine how the historical, social, and cultural contexts of each period influenced writers. Particular attention is given to the form and function of different types of literature including epic poetry, allegory, poetry, fiction, nonfiction, and drama. The survey of British literature includes excerpts from Geoffrey Chaucer, William Shakespeare, and Virginia Woolf. Students write creative and analytical compositions and participate in collaborative discussions to refine their writing products.

AP English Language and Composition This course provides high school students with college-level instruction in language, rhetoric, and exposition. Students study and write various kinds of analytic and persuasive essays on literary and nonliterary topics. Students become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. Both reading and writing are designed to make students aware of the interactions among a writer's purposes, the audience's expectations, and subjects, as well as the way writing conventions and language contribute to effectiveness in writing. This course effectively prepares students for the AP English Language and Composition 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 This course prepares high school students for the AP English Literature and Composition exam by providing them with college-level instruction in various kinds of analytic and persuasive essays on literary and nonliterary topics. Students become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. Through their integrated reading and writing activities, students analyze and evaluate the interactions among a writer's purposes, audience expectations, and subjects, as well as the way writing conventions and language contribute to effectiveness in writing.

MATH 9–12

These math courses are designed to enable students to develop and apply mathematical concepts, skills, and problem-solving strategies. Students are taught to use interactive online tools, think critically, and utilize helpful test-taking strategies. In math, students continually apply what they are learning to real-world situations, review frequently, and take advantage of enrichment opportunities.

Algebra 1 Students learn about the properties of real numbers and apply their knowledge to equations, inequalities, and multi-step equations. They move on to identify, write, and graph functions and equations; simplify radical expressions; solve quadratic equations; and factor and perform operations with binomials and polynomials. Students calculate slope and use the slope-intercept form to graph linear equations. They also learn to solve systems of equations and inequalities both graphically and algebraically.

PAP Algebra 1 Pre-Advanced Placement (Pre-AP) courses are designed to prepare students for entry into Advanced Placement (AP) mathematics courses and to meet the unique needs of the district's gifted and talented mathematics students. Basic content is the same as the on level course, but instruction allows for greater depth and complexity in the curriculum. Students will develop advanced problem-solving skills and algebraic symbol manipulation, computation in problem solving contexts, mathematical language and communication, connections inside and outside mathematics, reasoning, multiple representations, applications and modeling, and justification.

Algebra 2 Students engage in high-level mathematical discussions and apply algebraic concepts to real-world scenarios as they build on prior knowledge of functions, systems of equations, the quadratic formula, and factoring. Students also continue to study arithmetic and geometric sequences and series, probability and statistics, and trigonometric identities and equations.

PAP Algebra 2 Pre-Advanced Placement (Pre-AP) courses are designed to prepare students for entry into Advanced Placement (AP) mathematics courses and to meet the unique needs of the district's gifted and talented mathematics students. Basic content is the same as the on level course, but instruction allows for greater depth and complexity in the curriculum. Course will include conic sections and their transformations, and rational, polynomial, exponential, and natural log functions exploring the topics in more depth and enhancing this exploration with the use of technology.

Geometry This course guides students through the exploration of geometric figures. They analyze plane figures and three-dimensional figures and apply formulas to calculate area, surface area, and volume. They learn how to use inductive and deductive logic to conduct formal proofs through predictions, counter examples, and drawing conclusions. Students also conduct detailed analyses of the properties of parallel and perpendicular lines, triangles, polygons, quadrilaterals, and circles, including similarity and transformations.

PAP Geometry Pre-Advanced Placement (Pre-AP) courses are designed to prepare students for entry into Advanced Placement (AP) mathematics courses and to meet the unique needs of the district's gifted and talented mathematics students. Basic content is the same as the on level course, but instruction allows for greater depth and complexity in the curriculum. Emphasis is on the development of critical-thinking skills and deriving geometric proofs. Students will solve meaningful problems by representing figures, transforming figures, and analyzing and proving relationships.

Advanced Quantitative Reasoning (AQR) In this course, the student will apply knowledge of algebra as he explores topics such as saving money, spending money, and dealing with debt. The student will apply formulas to determine account balances, monthly payments, and total costs. As the student applies knowledge in real-world scenarios, he will learn skills that provide a foundation for financial decisions. In the second part of this course, the student will extend knowledge of the financial applications of algebra by exploring investments, mortgages, and retirement savings plans. While participating in real-world scenarios, the student will reflect on learning and evaluate progress as he continues to exercise financial decision-making skills.

Precalculus This course includes an in-depth study of functions. Students review the principles and techniques algebra, geometry, and trigonometry, and they learn to explore, solve, and evaluate various functions, equations, and inequalities. Mathematical reasoning and problem solving are stressed to prepare for calculus at high school or college level. A TI-83+ or TI-84+ graphing calculator is strongly recommended.

PAP Precalculus Pre-Advanced Placement (Pre-AP) courses are designed to prepare students for entry into Advanced Placement (AP) mathematics courses and to meet the unique needs of the district's gifted and talented mathematics students. Basic content is the same as the on level course, but instruction allows for greater depth and complexity in the curriculum. Emphasis will be on preparation for Advanced Placement Calculus. Course will include additional opportunities for the development of critical-thinking skills, exploring the topics in more depth and enhancing this exploration with the use of technology.

Calculus Students are introduced to advanced concepts relating to limits, differentiation, and integration. Using graphs and equations, they investigate finite and infinite limits, apply various methods such as the chain rule to solve derivatives, and use both area calculations and the substitution method to evaluate integrals. A TI-83+ or TI-84+ graphing calculator is strongly recommended.

AP Calculus AB This college-level course covers such concepts as derivatives, integrals, limits, approximation, applications, and modeling. In the first semester, students begin by reviewing function notation, then exploring absolute value, piecewise, exponential, logarithmic, trigonometric, polynomial, and rational functions. After studying limits and continuity, students move on to concepts of derivatives, including the chain rule, differentiation, implicit differentiation, and logarithmic differentiation. Toward the end of the course, students apply what they have learned to solve integration problems. This course effectively prepares students for the AP Calculus AB exam. A TI-83+ or TI-84+ graphing calculator is required for this course, but it is not provided by iUniversity Prep.

Math Models Students delve into fundamental math concepts and apply those concepts to real-life situations. Topics covered include prime factorization, operations with rational numbers and integers, solving equations, properties of real numbers, and basic statistics. The goal is to establish a solid base for studies of more advanced math. Math Models must be taken prior to Algebra II or any other advanced maths.

AP Statistics Students gain an understanding of the vocabulary, method, and meaning of statistics. They explore data and patterns found in the world around them by analyzing information and noting statistical relationships. They apply their knowledge to relevant, open-ended tasks requiring them to connect multiple statistical topics together. To demonstrate their comprehension, students actively construct experiments to understand, interpret, communicate, and apply statistical methods. General topics of study include planning and designing a study, anticipating patterns, and making statistical inferences. This course effectively prepares students for the AP Statistics exam.

SCIENCE 9–12

The science courses challenge students with a rigorous curriculum that includes opportunities to explore and apply concepts in depth. In addition to designing and conducting experiments and engaging in independent research, students also complete active, inquiry- oriented lessons and participate in online tutorials and virtual labs.

Biology Students have frequent opportunities to debate scientific findings and analyze how biology impacts society as they study topics such as ecology, genetics, and anatomy. Using both hands-on experiments and interactive tools, they also study cells, compare microorganisms, investigate plant and animal structure and function, and explore the history of life on Earth.

PAP Biology Pre-Advanced Placement (Pre-AP) courses are designed to prepare students for entry into Advanced Placement (AP) science courses and to meet the unique needs of the district's gifted and talented science students. They are designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and issues in science. Basic content is the same as the on level course, but instruction allows for greater depth and complexity in the curriculum. This course involves greater detail in the above topics and will move at a faster pace. Special projects and independent/group activities are required.

AP Biology This challenging course is designed to provide a college-level experience and prepare students for the AP Biology exam. 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 biology concepts and connections. The key themes in the course include the scientific processes; the effects of science on technology and society; the chemistry and makeup of living organisms; and genetics, diversity, and evolution.

Chemistry Students are given the opportunity to model atomic structure and to observe, represent, and interpret reactions between atoms and molecules. Students investigate the properties of solutions and analyze the nature of solids, liquids, and gases using interactive tools. They describe and calculate the energies of different types of reactions and explore electrochemistry.

PAP Chemistry Pre-Advanced Placement (Pre-AP) courses are designed to prepare students for entry into Advanced Placement (AP) science courses and to meet the unique needs of the district's gifted and talented science students. They are designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and issues in science. Basic content is the same as the on level course, but instruction allows for greater depth and complexity in the curriculum. Topics covered in Chemistry Pre-AP are more in-depth and involve a more mathematical approach than regular Chemistry. Emphasis is placed on individual study and problem solving.

Earth and Space Science Students focus on the study of space and the geologic and atmospheric forces that shape our world. Through experimentation and investigation, students explore Earth cycles including the geosphere, hydrosphere, cryosphere, atmosphere, and carbon cycle. They learn about scientific inquiry, geologic time, space exploration, the solar system, and the universe. Students use Web 2.0 tools, interactive experiences, higher-order thinking, collaborative projects, and real-world application through labs and a variety of assessments.

Integrated Physics and Chemistry Students explore and learn the basic concepts of chemistry and physics. The chemistry- focused lessons extend prior knowledge of the properties, states, and structure of matter; explore the dynamics of chemical bonding and reactions; and introduce students to nuclear chemistry. The physics-focused lessons enable students to explore motion, force, work, power, energy, wave mechanics, electricity, magnetism, optics, and the electromagnetic spectrum. Additional content includes Earth science. Hands-on explorations and virtual simulations enhance students' comprehension of key science concepts. **Course must be taken prior to chemistry and physics.

Physics Students apply the math and science skills they already learned to explain the laws of motion, analyze the laws of thermodynamics, describe the behavior of waves, and investigate the relationship between electricity and magnetism. They are introduced to quantum physics and are asked to apply physics concepts to real-life situations.

PAP Physics Pre-Advanced Placement (Pre-AP) courses are designed to prepare students for entry into Advanced Placement (AP) science courses and to meet the unique needs of the district's gifted and talented science students. They are designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and issues in science. Basic content is the same as the on level course, but instruction allows for greater depth and complexity in the curriculum. Pre-AP Physics is a first year Pre-calculus based introductory physics course also dealing with a broad range of topics. In Pre-AP Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion, changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Pre-AP Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical-thinking skills.

Environmental Systems Students have an opportunity to study the fundamentals of ecology and investigate ways to protect the environment. They review the scientific method and the water and carbon cycles. Students also take a look at various kinds of pollution and ways to safeguard our natural resources.

SOCIAL STUDIES 9-12

Through these courses, students receive an overview of the most important cultural, socioeconomic, and political events in United States and world history. They also study the most influential people of critical historical periods. All high school social studies courses are designed to be thought-provoking, sharpening the student's ability to question, read, analyze, and interpret different forms of information and better communicate ideas to others.

Economics This course provides an introduction to macroeconomics and microeconomics and covers such basics as supply and demand, labor issues, financial markets, taxes and international trade. Students also examine how capitalism and the global economy work.

AP Microeconomics Microeconomics emphasizes how individuals make choices with limited resources. The student will examine concepts such as supply and demand, factors of production, roles of labor and management, the relationship between the environment and the economy, and the impact of the government on individual decision making processes. The student studies the stock market as an investment option and trace various stocks through the semester using the Wall Street Journal and the Internet as resources

World Geography Students explore the world's cultural regions by focusing on location, physical characteristics, demographics, historical changes, economic activity, and land use. They are encouraged to examine real-life situations, develop an understanding of multiculturalism, and compare relationships between people and their environment.

PAP World Geography Students in Pre-AP World Geography will study geography in greater depth and complexity. Emphasis will be placed on physical, economic, environmental, and cultural geography. Students will be required to participate in oral and written presentations, write various essays and read required selections taken from primary and secondary sources. Content selection will provide higher level thinking skills as well as a basis for students to compare and analyze man and his global environment.

AP Human Geography The 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, and they are challenged to use maps and geographical data to discern spatial patterns and analyze changing interconnections among people and places.

United States Government This course focuses on the basic principles and organization of the U.S. government. Students examine the growth of democracy, federalism, separation of powers, checks and balances, and public policies and services. They are provided with an overview of the legislative, executive, and judicial branches and are encouraged to understand and participate in the nation's government.

AP United States Government Students survey the complex subjects of the U.S. government and politics. They make detailed analyses of the process and institutions (both formal and informal) by which the political system functions and the policy decisions are made. These analyses include the constitutional structure of government, participatory politics, the formal institutions of power (and extra-constitutional influences on them), and the public policy and individual rights and liberties. This course effectively prepares the students for the AP United States Government exam.

United States History Students follow the significant developments in America's history. They explore the growth of American society from early settlement and colonization to the emergence of America as an independent nation. The causes and aftermath of the Civil War are discussed, as is America's involvement in World War I. Students explore social and economic whirlwinds of the Roaring Twenties and the subsequent Great Depression, World War II, the Cold War, and the turmoil and societal changes of the 1960s and 1970s. The final part of the course explores America's history from Watergate to the early 21st century. Throughout this course, geography and government concepts are introduced and discussed.

AP United States History Students are exposed to a broad body of historical knowledge as they prepare for the AP United States History exam. They are required to express their ideas clearly in writing, learn to interpret and apply data from original source documents, and identify less commonly represented points of view. In addition, students cover the exploration and colonization of America, the rise of nationalism and sectionalism, and events through the present day.

World History Beginning with a review of ancient civilizations, this course moves through the emergence of nation-states and the age of exploration and colonization, culminating in the advances and turmoil of the 20th century and its evolution into today's global, networked society. Students use primary sources to bring the past to life through the words and experiences of those who lived it.

PAP World History Students in Pre-AP World History will study the history of the world in greater depth than the regular course. Emphasis will be placed on the major political, social, economic, and artistic movements throughout the various periods covered. Students will be required to participate in oral and written presentations, write various essays and research papers, and read required selections taken from primary sources. Content selected will provide higher level thinking skills as well as a basis for the students to compare and analyze ways of life and patterns of culture, emphasizing both the diversity and commonality of mankind's behavior.

Psychology The course begins with a review of the ways people have sought to explain human behavior from ancient times through today. Students explore research methods and discover how the scientific method has moved psychology from hypnosis and mesmerism to using serious inquiries to prove theories. They also investigate brain personality theories to help understand such complex mental processes as learning, memory, thought, and language.

AP Psychology The equivalent of an introductory college course, this course includes an overview of current research methods and theories. Students explore therapies used by professionals and examine the way people learn and think. Human reactions, instincts, aggression, intimacy, altruism, and information retention are studied. The course prepares students for the AP Psychology exam.

Sociology Students examine the sociological processes that underlie everyday life, focusing on globalization, cultural diversity, critical thinking, new technology, and the growing influence of mass media.

Other Core Classes and Electives

Health This course covers first aid, the benefits of good nutrition, and the dangers of alcohol and drug use. Students learn how to evaluate their own fitness and nutritional needs and how to make changes that lead to a healthier lifestyle over the long run. Also discussed are strategies for resisting peer pressure and ways fitness can influence self-image and overall well-being.

Physical Education – Foundations of PE and Individual and Team Sports Physical Education This course emphasizes self-directed activities that a student can participate in for a lifetime. This includes the option of learning and practicing yoga. Students' skill levels are measured with written assignments, class evaluations, and demonstrations of a particular skill.

Art I Students begin exploring the basic elements of art and its role in history through their examination of works from Paleolithic times to the Roman Empire. The goal is to enhance students' understanding of ancient history and show how art reflects historical events. Basic drawing skills will be developed through contour line, value (shading to show form), perspective (illusion of space) and portraiture. Each student will demonstrate his/her accomplishments through a portfolio of work.

AP Art History This course is designed to provide college-level instruction in art history and prepare students for the AP Art History exam. Students examine major forms of artistic expression from the past to the present and from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience.

Art 2 Drawing In this course, a variety of drawing possibilities will be explored as students are introduced to a range of drawing techniques and materials. Each student will demonstrate his/her accomplishments through a portfolio of art work. **Prerequisite is Art 1. Additional fees may be associated with this course.**

Music Theory This course deals with the elements of music including a study of such basics as scale structure, chord structure, chord progression, key and meter signatures, rhythmic and melodic dictation and notation. Composing and music arranging are studied, as well as sight singing and ear training.

Music 1, Applied Music This course is open to any student wishing to pursue music performance through vocal or instrumental performance techniques, literature and performances. The course will accommodate all levels of musical experience, and progress technically and musically on the student's chosen instrument. In addition to weekly study, students will perform virtually and live, culminating in a final end of year recital.

Prerequisites: While no prior musical experience is necessary, the student is expected to procure a private lesson teacher with weekly study.

Music 2, Applied Music This course is open to any student wishing to pursue music performance through vocal or instrumental performance techniques, literature and performances. The course will accommodate all levels of musical experience, and progress technically and musically on the student's chosen instrument. In addition to weekly study, students will perform virtually and live, culminating in a final end of year recital.

Prerequisites: Applied Music 1, as well as procuring a private lesson teacher with weekly study.

Music 3, Applied Music This course is open to any student wishing to pursue music performance through vocal or instrumental performance techniques, literature and performances. The course will accommodate all levels of musical experience, and progress technically and musically on the student's chosen instrument. In addition to weekly study, students will perform virtually and live, culminating in a final end of year recital.

Prerequisites: Applied Music 1 and 2, as well as procuring a private lesson teacher with weekly study.

Speech

Communication Applications Using video tutorials, students study verbal and nonverbal techniques—including those of famous orators—to use when presenting simple and complex ideas and when speaking to a group. Using an audiovisual tool to record their speeches, students learn how to speak persuasively, develop position statements, support their arguments, and think analytically. Brainstorming techniques, media analysis, research skills, and presentation strategies are also discussed.

Language Arts

Journalism Students gain firsthand experience writing news, sports, and feature articles and following proper journalism guidelines. The activities and assignments simulate an actual newsroom. In addition, students can contribute to the school newspaper and other monthly publications.

Reading I for College and Career This elective is designed for the student interested in growing their reading skills for college and career readiness. The instructional emphasis targets critical reading strategies, critical thinking, reading rate, PSAT vocabulary, and study skills. Skills are practiced through the use of relevant materials relating to preparing for college and career options. Students will have opportunities to apply those reading strategies while developing the soft skills that college and employers are looking for in someone. Students will also be exploring different college and career paths based on their personal interest.

World Languages

Spanish I Students cover basic vocabulary, grammar, spelling, and punctuation to build a solid foundation for further study. Assignments include engaging in simple conversation, writing paragraphs, and listening to Spanish dialogue. Students also study the history and culture of Spanish-speaking peoples.

Spanish II As they engage in more advanced conversations, write paragraphs and stories, and translate to and from Spanish, students improve their vocabulary and grammar. Intense listening comprehension exercises aid in understanding more complex thoughts and subjects.

Spanish III Students build their vocabulary and communication skills even further in Spanish III. Advanced grammar, including the study of tenses, sentence structure, and punctuation, is covered. Students also practice correct accents and learn to comprehend real-world native speech.

Spanish IV The fourth year of Spanish covers advanced grammar including present, past, future, and conditional tense verbs, subjunctive mood, articles, and adjectives. Students focus on the Spanish-speaking world including its culture, people, geographical locations, and histories.

AP Spanish Language The main objective of this course is to develop students' interpersonal communication skills and prepare them for the AP Spanish Language exam. Students develop a strong command of the Spanish language and become very proficient in reading.

French I This course introduces students to basic vocabulary and grammar. Lessons and assignments focus on simple speaking and reading, comprehension, and composition. Students also study the history and culture of French-speaking peoples around the world.

French II Students are exposed to more complex reading, writing, and listening coursework. They explore advanced grammatical structure and apply vocabulary and word usage to various situations.

French III This course is designed for students with strong listening and speaking skills plus a solid vocabulary base. The focus is on verb conjugation, direct and indirect object pronouns, and tenses. Students also improve their writing and speaking skills as they study the culture, art, and governments of French-speaking countries.

French IV Students cover present, past, future, and conditional tense verbs, subjunctive mood, articles, and adjectives while delving more deeply into French culture. This course, rich in authentic reading material, uses native-speaker recordings to enrich the student's culture, grammar, and vocabulary lessons.

German I Students use discussions and other activities to learn how to speak, read, write, and understand basic German. Simple grammar, punctuation, and spelling are reinforced with interactive lessons, games, and activities. Students also study German culture and history, as well as the influence of the German language.

German II In this course, students are introduced to increasingly complex vocabulary and grammar. There is more emphasis on improving spoken communication and listening comprehension.

German III Students learn to express themselves using an ever-increasing vocabulary, present-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind, including listening, speaking, reading, and writing. Culture is sprinkled throughout the course in order to help the learner focus on the German-speaking world and its culture, people, geographical locations, and histories.

American Sign Language I This course introduces students to the fundamentals of American Sign Language. They explore vocabulary, grammar, and conversation using basic signing and fingerspelling techniques. Special activities and exercises also help students understand the culture of the deaf and hard of hearing community.

American Sign Language II In this course, students continue their study of American Sign Language (ASL). Students expand their ASL vocabulary, grammar, and conversational skills. In addition, students complete activities and exercises that help them understand the culture of the deaf and hard of hearing community.

Technology

Fundamentals of Computer Science Students progress to more sophisticated work in this course, including the use of electronic media and software to apply academic concepts in the creation of meaningful organizers, projects, and presentations. Students locate, retrieve, and evaluate data in order to construct and analyze databases. Students produce presentations on Internet safety, online predators, and cyberbullying. At the end of the course, students become effective communicators and collaborators as they plan, evaluate, and synthesize research emphasizing current issues with technology.

Computer Science **Student must have competed Algebra I to take this course.** The student explores programming fundamentals, variables and assignments, conditional expressions, selection statements, loops, arrays, methods, string manipulation, program troubleshooting, and the basics of class design, object creation, and object interaction. The student will use Oracle's Java programming language throughout this course.

Web Communications In this 1 semester course, students learn the basics of building safe websites including the use of hypertext markup language (HTML). They then plan their own sites and learn how to link and navigate pages. As they progress to more complex design techniques, students also learn how graphics can make a site more attractive.

Web Design This course provides a comprehensive introduction to the essentials of website design. From designing page layouts to coding with CSS and JavaScript®, students learn how to create a complete website. Through study of real-world design scenarios and hands-on projects, students create compelling, usable websites using KompoZer, one of the Internet's easiest- to-use open-source editing applications.

Game Design **Student must have completed Algebra I to take this course.** In this 1 semester course introduces students to the basic skills necessary for game design. Students study the various games in the industry, explore the processes and art of making game elements, and develop a prototype showing their understanding of the game design process.

Principles of Applied Engineering In this course students apply computer-aided design skills to draw plans and diagrams by creating points, lines, three-dimensional models, and more. They also learn how to translate abstract concepts into functional designs and create a diverse portfolio of projects.

Business/Career/Technology

Touch System Data Entry Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

Principles of Business, Marketing and Finance This course introduces students to the basic concepts of business. Some of the topics covered include types of businesses, ethics in business, and the impact of global business. Product pricing and types and effectiveness of advertising will also be presented. Students will explore individual interests and abilities, set goals and develop a career plan. Students will learn to manage their own money matters as they study the principles of money and personal financial management.

Introduction to Entrepreneurship Students learn the basics to plan and launch their own business by studying successful entrepreneurs and basic economic concepts such as competition, production, setting up a business plan, and more. In course II, students continue to develop skills including setting goals, understanding financial concepts, working with others, and managing employees.

Principles of Health Science Principles of Health Science is an orientation and foundation for occupations and functions in any health care profession. The course includes broad health care core standards that specify the knowledge and skills needed by the vast majority of health care workers. The course focuses on exploring health career options, history of health care, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes, and basic health care industry skills.