

2021-2022 Catalog

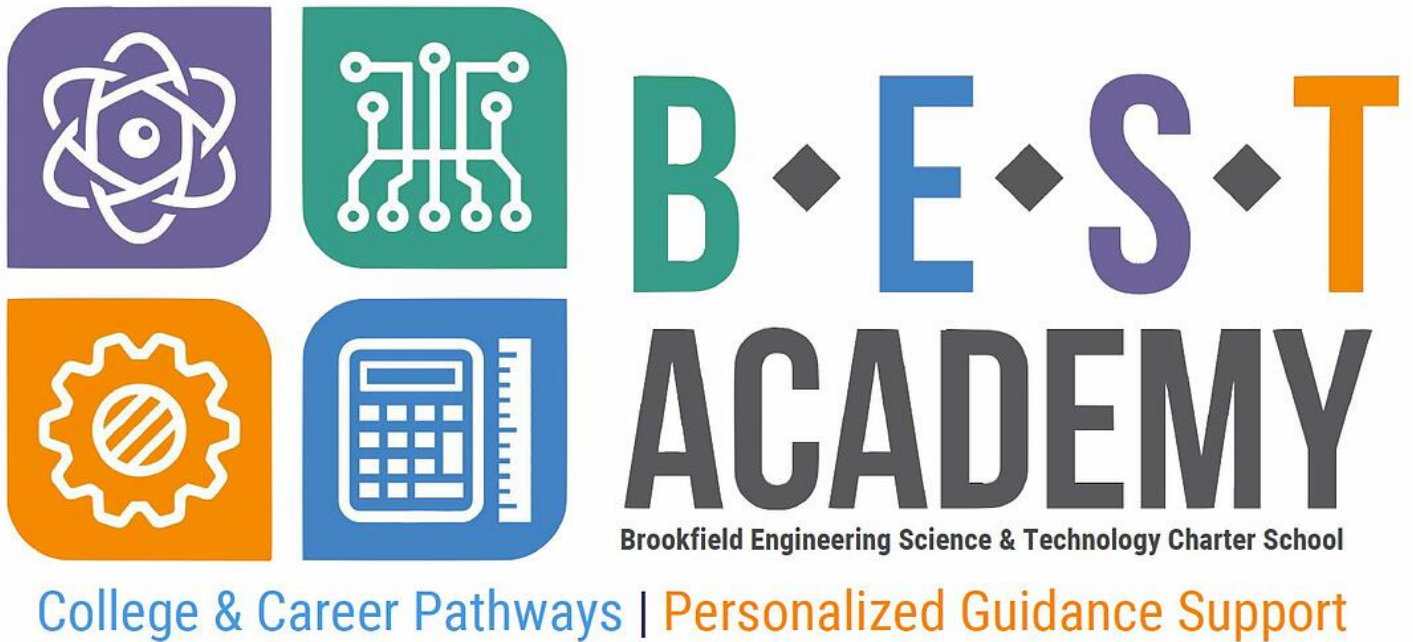


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School Information

Statement of Purpose

Brookfield Engineering Science Technology Academy (B.E.S.T. Academy) harnesses the power of a flexible learning environment and modern educational technology to serve learners with diverse backgrounds and goals who are seeking an educational alternative that stimulates and supports independent learning, provides a robust social-emotional approach, and supports STEM college and career readiness. With a standards-based online curriculum, combined with superior individualized support, B.E.S.T. Academy will create a learning environment that empowers students to rise to the challenge of independent, self-directed learning.

LCAP Goals

Goal 1: Literacy across the curriculum

- Sustained increase in student Lexile levels, as measured by supplemental program reports.
- Sustained increase in student proficiency rates in core content areas.
- Sustained increase in proficiency rates on CAASPP and ELPAC results.

Goal 2: Academic achievement in all content areas

- Sustained increase in student achievement scores in the local core curriculum.
- Sustained increase in student achievement scores in supplemental curriculum reports.
- Sustained increase in proficiency rates on CAASPP results in English, Math, and Science.

Goal 3: *Connect2Connect*

- Sustained increase in student Average Daily Attendance
- Sustained increase in parent attendance at meetings/workshops and sustained increase in parent contacts logged
- Digital class meetings and teacher office hours

Accreditation

WASC

B.E.S.T. Academy has earned accreditation from the Accrediting Commission for Schools, Western Association for Schools and Colleges (WASC). WASC is a world-renowned accrediting association and one of the six regional accrediting agencies in the United States. WASC extends its services to over 5,000 educational entities worldwide. B.E.S.T. Academy is integral to an organization's perpetual cycle of assessment, planning, implementation, monitoring, and reassessment based upon students' achievement. WASC fosters excellence in elementary, secondary, adult, and postsecondary education by encouraging school improvements through a process of continuing evaluation and to recognize, by accreditation, organizations that meet acceptable levels of quality in accordance with established criteria.

AdvancED

AdvancED is a global educator organization that seeks to continuously improve and strengthen schools through accreditation and certification, assessment, professional learning, and customized improvement services. Every five years, they use an iterative process to review, revise and renew our Standards to ensure they remain relevant and challenge our institution to reach higher. Accelerate Education, one of B.E.S.T. Academy's curriculum providers, has achieved accreditation from AdvancED.

Quality Matters (QM)

QM Standards were created to guide schools in developing, evaluating, and improving online and blended courses with high-level expectations. The impact of Quality Matters on certified courses is undeniable. Course review results in better course design that facilitates navigation, thereby reducing barriers to achievement and leading to better outcomes. The impact of using Quality Matters goes far beyond the course or courses being certified. Using the QM Quality Assurance System even in one area, or one course, begins to instill a "culture of quality" throughout the organization. 91 percent of Course Representatives and 81 percent of Peer Reviewers who have participated in QM Course Reviews have implemented or are planning to implement QM practices. PointFul Education and Accelerate Education are two of B.E.S.T. Academy curriculum providers that are meeting the QM standards.

Every Student Succeeds Act (ESSA)

ESSA calls to prioritize interventions, strategies, and approaches that are evidence-based to optimize student achievement. B.E.S.T. Academy utilizes evidence-based programs that have been proven to make a significant positive impact on student outcomes. Core5, PowerUp, and DreamBox all meet the ESSA's highest tier of "Strong Evidence".

Pacing

B.E.S.T. Academy Charter School has a course pacing policy in place that will help our students reach their educational goals. In addition to providing accountability, pacing ensures that our students are attaining various California educational standards. B.E.S.T. Academy provides innovative, individualized education to our students, and we will continue to offer the highest level of service, support, and flexibility.

All IEP and 504 Plans will be honored.

Instructional Delivery Modes

Asynchronous Classroom (AC)

The Asynchronous Classroom (AC) is available for elective courses. Asynchronous classes can be completed at any time and do not require a live component, providing students with the flexibility to complete schoolwork when it is convenient for them. In this setting, students complete the work as posted in the course. Course components may include readings, videos, games, discussion board threads, and a variety of assessments. A California-credentialed teacher is available to assist students and to provide feedback as they work through the course.

Blended Classroom (BC)

The Blended Classroom (BC) combines the best of the asynchronous setting with the addition of a live classroom experience one day per week. Blended Classroom courses are taught by California-credentialed teachers. The Blended Classroom is an option for students in grades 3-12. Students will be scheduled in a live class session once per week for all subjects. These class sessions will contain video clips, discussion, and other activities to help reinforce the content presented in the asynchronous material. Students will be required to maintain a steady pace in their coursework and attend their live class sessions as directed. The Blended Classroom offers the flexibility of a self-paced course with live teacher support that will help all students be successful.

Virtual Classroom (VC)

B.E.S.T. Academy offers students a unique instructional setting by conducting real-time classes through our Virtual Classroom (VC). VC is available to students in grades 3-12. The VC follows a traditional school year calendar, typically beginning in September and ending in June. Lessons include discussions, videos, and other activities. Homework will be assigned to reinforce the concepts presented in class. All VC courses are recorded and archived so students can review sessions as needed. All core subject area courses meet five days per week, while elective course meeting days will vary. The VC offers students variety, innovative technology, teacher support and guidance, and the opportunity to succeed. The goal of VC is to support students to catch up with pacing and build self-monitoring strategies to be successful in independent study. Typically, students are assigned to VC for a four-week period.

VC classrooms are required for students not meeting pacing requirements.

State Testing and School Assessments

California Assessment of Student Performance and Progress (CAASPP)

The CAASPP is the state's annual academic testing program. CAASPP is a system intended to provide information that can be used to monitor students' progress and ensure that all students leave high school ready for college and career. The CAASPP is a computer adaptive test in English-Language Arts (ELA) and Mathematics.

CAST

The California Science Test (CAST) is an online assessment based on the California Next Generation Science Standards (NGSS). All students in grades five and eight and in high school are tested.

CAA

The summative California Alternate Assessments (CAAs) for English Language Arts (ELA), mathematics, and science are administered to eligible students. The CAAs are for students with the most significant cognitive disabilities and whose individualized Education Plan (IEP) team has designated the use of an alternate assessment for statewide summative assessments.

ELPAC

The English Language Proficiency Assessment for California (ELPAC) is the mandated state test for determining English language proficiency (ELP). It is administered as an initial assessment to newly enrolled students whose primary language is not English, as indicated on a home language survey; and annually as a summative assessment to students who have been previously identified as EL students.

Physical Fitness

The physical fitness test (PFT) for students in California schools is the FITNESSGRAM. The main goal of the test is to help students with starting life-long habits of regular physical activity. Students in grades 5, 7, and 9 are required to take the fitness test.

NWEA MAP

MAP assessments are given three times a year to get an accurate view of how much each student has grown over time and what students are ready to learn. Based on results, a personalized learning plan is created for each student to support academic growth.

Student Support

English Language Development (ELD) Program

Formerly known as English as a Second Language (ESL), B.E.S.T. Academy 's English Language Development (ELD) program complies with California Education Code. The California Department of Education requires every public school district and charter school to provide a Language Instruction Educational Program (LIEP) for each student who is identified as an English Learner (EL). Placement in an LIEP is guaranteed to all students who qualify. B.E.S.T. Academy provides its English Learners with EL-specific English-only instruction where English language skills and curriculum content are the focus. The goal of B.E.S.T. Academy's ELD program is to facilitate the development of social and academic language for students whose native or primary language is not English. The ELD Department provides identification, placement, direct English language instruction, content classroom language support, state-required assessment, and monitoring for all identified ELs. Additionally, B.E.S.T. Academy's ELD Department provides the following for its enrolled English Learner students:

- Live language instructional sessions with a California credentialed ESL Program Specialist.
- Additional language support within the content classroom
- Enhanced communication between staff and family in the family's preferred language
- Individual virtual tutoring sessions with the option of real-time translation
- Online benchmark software providing targeted instruction and support
- Progress monitoring of English language development
- Participation in the state required ELPAC for ELLs assessment

Gifted and Talented Education (GATE)

B.E.S.T. Academy works closely with families to maximize each student's educational potential using appropriate course and grade acceleration, delivery of optional online enrichment courses, and the provision of educational events and other supplemental programs. The B.E.S.T. Academy GATE program affords the following for students that have been identified as gifted:

- Personalized approach to understand and best accommodate each gifted student's educational needs.
- Engaging educational opportunities and programs designed for advanced learners.
- Live online enrichment courses.
- Online discussion forums and interactive student competitions.

School Counseling

The School Counseling Department at B.E.S.T. Academy works with all students to ensure their potential is fully realized regarding academic, personal, social, and career development to achieve success in and out of the classroom. Counselors offer support in a variety of ways including individual, group, and classroom guidance. Counselors prepare students for life after high school by advising and assisting in college, career, and post-secondary initiatives. School counselors collaborate with community agencies, staff members, parents, teachers, and

administrators to ensure that all students are empowered to create a quality life as they acquire knowledge, learn responsible behaviors, and prepare to become lifelong learners.

MTSS

MTSS is a school model that uses data-driven system to address both academic and non-academic needs of all students' individual needs. Monitoring, communication with families, and the use of various programs can help students attain academic success.

High Dosage Tutoring

High-dosage tutoring is a model that is personalized, with specific focused skills. One-on-one and small group tutoring meet two times a week for four weeks

Clubs and Workshops

One of the easiest and quickest ways to meet other B.E.S.T. Academy students is to join a club or workshop. At B.E.S.T. Academy, these activities meet online through our online classroom, and stay connected by discussions and chats with fellow students. Each club elects officers, chooses club topics to discuss, and may help organize club outings.

There is a club or workshop for almost every type of interest. Student can get involved, meet others, expand their horizons, and have fun!

Elementary School Clubs and Workshops

- Around the World, Foreign Languages Club
- Bookworm Buddies Book Club
- Home Economics
- Intro to Codesters
- Python 1
- Python 2
- Ready, Set, Steps Club
- Young Authors
- Zumba Club

Middle School Clubs and Workshops

- Adventures in Reading Club
- Cooking Club
- Cooking Workshop
- Spanish Club
- Game Creation & Design Workshop
- Good Eats Club
- Origami Workshop
- Oceans First Club
- Pointillism/Art Workshop
- Ready, Set, Steps Club
- Spanish Club

High School Clubs and workshops

- Adobe Users Club
- Architecture and Construction Club
- American Sign Language Club
- Book of the Month Club
- Chess Club
- Coding Club
- Drone Pilot Club
- French Club
- Future Business Leaders Club
- Future Engineers Club
- Future Nurses Club
- Future Teachers/Educators Club
- Game Developer Club
- German Club
- History Club
- Stock Investors Club
- Journalism Club
- Origami Workshop
- Photography Club
- Ready, Set, Steps Club
- Spanish Club
- Student Council

Curriculum Providers

Accelerate Education: 6th to 12th Grade Core

Accelerate Education is a digital curriculum provider for virtual schools looking to deploy effective and rich content that is used for 6th through 12th grade students. Accelerate Education's courses increase educational opportunities available for today's learners and increase student achievement through a rich and flexible individualized student learning experience. Accelerate Education's online curriculum offers rich and engaging content that has been carefully designed to meet state and national standards. Students are engaged in a variety of activities and assessments appropriate to the courses being studied, including labs, journals, written assignments, discussions, projects, formative assessments, objective tests, and written exams.

BrightThinker: 3rd to 5th Grade Core

Bright Thinker's customizable program allows students to work at their own pace. Moreover, the classwork is catered to different learning styles, so the curriculum is always challenging, stimulating, and beneficial. Bright Thinker's precision, mastery-based learning system is engineered to build on a student's strengths in a modern, engaging fashion. The dynamic program uses multi-media tools, a cutting-edge curriculum, and a personalized approach.

Core5: 3rd to 5th Grade Language Arts Supplemental

Core5 Reading provides students—from at risk to on-level and advanced—a systematic and structured approach to six areas of reading. The program creates personalized learning paths for each student through an adaptive placement and scaffolded activities that align to rigorous state standards. Students focus on: Phonological Awareness, Phonics, Structural Analysis, Fluency, Vocabulary, and Comprehension.

PowerUp: 6th to 12th Grade Language Arts Supplemental

PowerUp Literacy allows students to work at their own pace to develop skills essential to success in both literacy and content-area learning. After automatically placing students at just the right level, PowerUp guides students through an expertly crafted scope and sequence.

In PowerUp, students are automatically placed at the proper skill level where they can work independently. Through a system of explicit instruction, adaptive learning, and scaffolding, PowerUp gradually releases responsibility to students as they demonstrate greater proficiency. Students work independently on tasks that adapt based on their responses, providing real-time personalization. If students struggle in a particular activity, PowerUp provides immediate feedback before delivering direct instruction. Once students demonstrate understanding of the skill taught, they could try the initial activity again. If students continue to struggle, the teacher is notified and provided with an offline lesson to deliver that targets that specific skill.

DreamBox: 3rd to 12th Grade Mathematics Supplemental

DreamBox is a Harvard researched digital math program. The rigorous and interactive lessons adapt to each student providing the ultimate personalized learning experience. DreamBox keep students engaged and learning, whether it's for filling some learning gaps or for acceleration. Students build math confidence as they strengthen a positive mindset skills, such as grit, perseverance, and goal-setting.

Beable: 3rd to 12th Grade Social Studies Literacy

Beable is a multi-dimensional system that identifies and closes the literacy and opportunity gap with greater speed and certainty. It's the first comprehensive system that advances the whole student by intertwining literacy acceleration, intervention response, core content mastery, English language acquisition, career development and ACT/SAT prep.

BrainPop: 3rd to 12th Grade all Subject Supplemental

BrainPop is engaging learning games, animated movies, and activities. Learning is made visible through tools that challenge students to reflect, make connections, and engage in deeper, curiosity-driven learning.

RosettaStone: All English Language Learners

RosettaStone English is an adaptive blended learning program that supports students' English Language development through academic conversations. The program integrates speaking, listening, and grammar in the subjects of math, science, social studies, general knowledge, and biographies. Culturally and ethnically diverse characters engage and encourage students throughout their learning journeys, while interactive academic conversations empower them to build the linguistic competence and confidence needed for academic success. To address individual needs, the program offers both standard and scaffolded instruction.

PointFull Education: 9th to 12th Grade Electives and CTE

PointFull Education provides digital Career Technical Education online curriculum. PointFull Education offers a learning experience packed with engaging content, interactives, videos, graphics, discussion boards, activities, and projects. Curriculum ignites a passion for learning with a curriculum that features unique and relevant topics, prepares students for future-focused careers, and equips them with industry knowledge of new and emerging technologies.

3rd -5th Grade Courses

ENGLISH

ENGLISH LANGUAGE ARTS 3

This course provides students instruction and practice in reading, comprehending, and analyzing various genres. Students will also learn skills to become stronger writers while creating texts for various purposes. Students will complete basic research tasks. In addition, students will learn spelling, grammar, and conventions to strengthen their writing. They will also learn and practice skills and strategies to build their vocabulary. Students will further their communication skills by listening speaking and working with peers. Student will also learn and utilize cursive writing.

ENGLISH LANGUAGE ARTS 4

Covering 4th grade ELAR objectives, this course builds upon third-grade skills and vocabulary development. The focus is reading comprehension of main ideas, details, and themes. Students also keep a reading journal and compare different genre elements. Students write narratives and various essays, including a persuasive essay and an informative research paper. They also evaluate graphic elements, media, and speeches. In the area of cooperative learning, students practice good listening and discussion skills. Additionally, they use technology to make a presentation and self-evaluate their performance.

ENGLISH LANGUAGE ARTS 5

All standard conventions of English grammar are thoroughly covered. Vocabulary and spelling are spiraled throughout and include word roots, affixes, use of the dictionary, and using context. Students will read and analyze all major genres and be asked to

imitate each in their own writing. Students analyze the novel Number the Stars. The students compose all forms of writing required by the state standards and are given detailed instructions in formal research and essays. A section on media literacy is included. Many lessons require peer collaboration. Fluency in reading aloud is taught overtly.

MATH

MATH 3

The primary focal areas in 3rd Grade Math are place value, operations of whole numbers, and understanding fractional units. Students will learn the purpose of rounding numbers and learn to identify values on a number line. Students will perform the operations of addition, subtraction, multiplication, and division. They will learn and practice multiplication through 10. They will also learn to model division in different ways, including grouping and using arrays. The mathematical strands of algebraic reasoning, geometry and measurement, and data analysis are presented and practiced. The use of tables, graphs, and charts is thoroughly explained, and concepts of financial literacy are also covered.

MATH 4

The primary focal areas in 4th Grade Math are the use of operations, fractions, and decimals, and describing and analyzing geometry and measurement. Students will practice multiplication and divide 4-digit numbers by single-digit divisors. They will also learn about estimating quotients. Students will learn and practice addition and subtraction of fractions. Algebraic concepts will include working with equations and solving multi-step problems. Perimeter and

area problems will also be performed. Financial literacy topics are also covered.

MATH 5

5th Grade Math will develop students' mathematical problem-solving skills. Beginning with an overview of place values, students will learn to regroup numbers and estimate sums and differences. Students will learn to multiply and divide numbers with more than one digit. Proficiency will be gained in adding, subtracting, multiplying, and dividing fractions and whole numbers. Students will solve problems using basic numerical and algebraic expressions. Geometry includes lines, angles, polygons, and polyhedrons. Customary and metric measurements will be used to solve problems. Students will organize and present mathematical data using line graphs, scatterplots, bar graphs, and other visual aids. The course concludes with the application of math skills in the study of financial concepts.

SOCIAL STUDIES

SOCIAL STUDIES 3

The theme of 3rd Grade Social Studies is community. Students will compare different types of communities and discover how cultural diversity adds richness and meaning to life in communities. As the course progresses, students will be introduced to the concept of living in a larger world community. They will learn about heroic men and women who overcame adversity and made their communities better places to live. Students will apply map-reading skills and examine source documents that will help them place communities and events in geographical and historical context. Students will learn that they have a responsibility to improve their communities

and will identify ways to participate through nonprofit groups, government, and the free enterprise system.

SOCIAL STUDIES 4

California State History is a social science adventure guiding the student through the history of the Golden State. The course begins with a primer on social studies skills, such as reading maps. Students then explore the diverse geographic regions of California. Module 2 begins an extended look at California history with an investigation into the culture of Native Americans. Students will then analyze the effect of the arrival of European explorers and Spanish rule. Next, they will follow the transition to Mexican rule and subsequent rapid colonization and statehood driven by the 1849 Gold Rush. After surveying history to the present day, the course concludes with in-depth investigations into California's government, economic structure and industries, and cultural contributions.

SOCIAL STUDIES 5

The 5th Grade Social Studies students will engage in a broad survey of U.S. history. Beginning with the discovery of the Western Hemisphere during the Age of Discovery, students will follow the transformation of the United States from a wilderness in the 17th century to a world power during the 20th century. Students will examine founding documents and analyze how government, political parties, and the free enterprise system have shaped the development of the United States. Geographical skills will be tested as students memorize the location of all 50 states and the names of their capitals. In addition, students will examine their rights and duties as citizens and analyze the impact of

technology and culture on the lives of Americans.

SCIENCE

SCIENCE 3

The study of science in 3rd Grade includes conducting descriptive investigations using scientific methods, analyzing data, and making tables and graphs. Students use tools such as collecting nets, sound recorders, and spring scales to collect, analyze, and record information. In this integrated science course, students explore many scientific concepts and will perform tasks such as measuring physical properties of matter; describing the forms of energy; investigating how forces cause change; describing rapid changes to Earth's surface; comparing different landforms; creating models of the solar system; understanding the structures of living organisms and how they interact with each other and the environment, and comparing life cycles of different plants and animals.

SCIENCE 4

The study of science in 4th Grade includes conducting descriptive investigations using scientific methods, analyzing data, and making graphs. Students use tools such as beakers, compasses, and balances to collect, analyze, and record information. In this integrated science course, students explore many scientific concepts and will perform tasks such as measuring physical properties of matter; predicting how matter changes with heating and cooling; describing the forms of energy and its cycles; understanding slow changes to Earth's surface; recognizing weather patterns and using weather maps; understanding the structures and relationships of living organisms and their environment;

illustrating and comparing life cycles of different plants and animals; and investigating patterns in the Sun, Earth, Moon system, including shadows and lunar phases.

SCIENCE 5

The study of science in 5th Grade includes conducting descriptive and experimental investigations using scientific methods, analyzing data, and making models. Students use tools such as beakers, magnets, and spring scales to collect, analyze, and record information. In this integrated science course, students classify matter by its physical properties; describe the forms of energy and its cycles; investigate how forces cause change; diagram changes to Earth's surface; compare Earth's renewable and nonrenewable resources; understand the structures of living organisms and how they interact with each other and the environment; and recognize patterns in the Sun, Earth, Moon system.

HEALTH AND PHYSICAL EDUCATION

PHYSICAL EDUCATION 3

Elementary PE 3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, no locomotor, and manipulative skills. Students are required to participate in regular physical activity.

PHYSICAL EDUCATION 4-5

Elementary PE 4-5 helps young learners establish a basic understanding of health and fitness. Students focus on health-related

fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

6th to 8th Grade Courses

ENGLISH

ENGLISH LANGUAGE ARTS 6

Semester A

Through a study of myths, fables, and folk tales from different cultures—as well as novels and other modern forms of narrative, students learn the elements common to all forms of literature and the elements that are unique to each form. In lessons focused on writing and language study, students craft essays in several different modes and learn how to create the more formal style expected for school writing assignments. Lessons in this semester guide students to recognize and reproduce text structures and organizational patterns that work for different types of essays. The writing lessons also demonstrate the kinds of changes that students should make during the revising and editing stages of the writing process. Opportunities for teacher feedback are frequent, detailed, and varied.

Semester B

The second semester of Language Arts 6 builds on the skills and concepts introduced in the first semester. Students tackle more difficult texts in Semester B and apply more advanced analysis skills to reading and writing tasks. They also study some of the more subtle aspects of language, such as the role of connotation and nuance in an author's word choices and how those choices affect readers. Reading assignments are selected, in part, to provide models for students' own writing in specific modes, forms, or genres. Several lessons demonstrate methods of sharing and publishing writing using 21st century technology.

ENGLISH LANGUAGE ARTS 7

Semester A

Through analysis of written, spoken, and multimedia texts, students will become more critical consumers of information and of various forms of media. They will also synthesize and organize ideas to prepare structured essays in several different modes, including narrative, persuasive, and expository. Each lesson will guide students in learning and applying specific strategies for reading and writing different types of texts. A review of basic English mechanics is included in many of the writing lessons, along with a discussion of levels of formality required for different purposes and audiences. This course provides instruction in many modalities, including audiovisual presentations and videos, interactive activities, projects, and discussions. Opportunities for teacher feedback are frequent, detailed, and varied.

Semester B

The second semester of Language Arts 7 builds on the skills and concepts introduced in the first semester. Students tackle more difficult texts and themes in Semester B, and the level of analysis demonstrated and required is more in-depth. In this part of the course, students study the English language closely—both its history and evolution, and the less obvious ways it can be used to convey meaning. The reading assignments are selected to guide students in understanding how language can be used to convey broader themes in poetry, drama, and humorous or satirical texts. Students continue to develop their writing skills through multi-draft assignments and projects. Emphasis in this semester is on recognizing the multiple levels of meaning that any word or phrase might convey, and in writing one's own texts with these concepts in mind.

ENGLISH LANGUAGE ARTS 8

Semester A

During the first semester of this year-long course, students will read and analyze various kinds of written texts, include novels and short fiction, informational texts representing a wide range of topics and forms, and several one-act plays. Lessons in Semester A will also guide students in writing their own narratives and essays, using the readings in the course as both examples and sources of ideas for reflection, analysis, and argument. Students will learn better ways to discuss their thoughts and perceptions with others—they will practice their skills in collaborative discussions as well as informal journal entries, presentations, and speeches. Writing assignments include personal narratives, analytical and persuasive essays, and an original one-act play. Special emphasis is placed on reading in certain content areas, such as science and history, as well as understanding and thinking critically about news and media sources.

Semester B

In Semester B, students will examine the role of historical autobiographies and diaries in our understanding of history. In the process, they'll study the impact of point of view on nonfiction texts. Students will be given opportunities to write autobiographical narratives of their own and then asked to connect their experiences to universal themes or philosophical positions, which they explore through writing about them. In the second half of the semester, students will study the relationship between poetic expression and several conventions of language, including syntax, voice, sentence types, and punctuation. Next, they will explore the nature of creativity, the processes that tend to produce good literature, and the features of experimental and multi-genre forms of fiction. Near the

end of the semester, students will reflect on their own growth and development throughout the year, compiling a portfolio that illustrates the progress they've made. Finally, students will consider what high school will ask of them and how they might fulfill those expectations, having gained a better understanding of their strengths as well as areas ripe for continued learning and progress.

MATH

MATH 6

Semester A

Students begin the first semester of this course with a review of basic addition, subtraction, multiplication, and division of whole numbers. More complex concepts are built on these basics. Students learn how to add, subtract multiply, and divide integers, decimals, and fractions. The course also includes lessons on ratios and proportions.

Semester B

The second semester of Math 6 introduces students to the order of operations and how to use them in solving application problems. Building on these concepts, students are then introduced to the basics of algebra and algebraic expressions. Students then learn how to apply these problem-solving skills to percent and solving single and multiple step equations. An exploration of Geometry, probability and statistics concludes the second semester.

MATH 7

Semester A

In this first semester, students work with problem-solving skills, beginning algebra skills, geometry, decimals, fractions, data analysis, number theory and patterns, percent, and integer use. Projects measure the student's ability to integrate and apply the course objectives.

Semester B

In this continuation of the first semester, students work with fractions; unit conversions; proportions and rates; percent; geometry topics including lines, angles, polygons, polyhedrons, perimeter, area, surface area, volume, and transformations; squares and square roots; permutations and combinations; and probability. Real-life application of concepts is emphasized in all units.

Algebra Readiness 8

Semester A

Pre-Algebra A will help students move from the world of simple mathematics to the exciting world of Algebra and Geometry. They will develop skills that will be necessary throughout their life. Students will stretch their thinking by learning to solve real world problems. Learning math and algebra concepts can be fun. Abstract ideas can be challenging for many students, but the challenge is one they can meet. Concepts are presented with a little humor, making the learning fun. Students will enjoy learning each new concept and develop a deeper understanding of the math skills they already have. Each concept is presented using examples of the skills, concepts, and strategies students will need. Scaffolding of ideas is provided to ensure student learning. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with flash presentations, and complete practice problems. The pace is controlled by the student and reviewing the material is encouraged.

Semester B

Pre-Algebra B will continue to move students into the exciting world of the unknown, Algebra. Building on what they

have learned in mathematics and Pre-Algebra, students will expand their skills. They will be introduced to increasingly abstract concepts. Pre-Algebra B will provide the student with a concrete understanding of the basics for algebraic thinking. With numerous hands-on activities and demonstration videos, they will have multiple opportunities to enhance their process solving skills. Students will be given different assessment opportunities to demonstrate mastery of each skill. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with flash presentations, and complete practice problems. The pace is controlled by the student and reviewing the material is encouraged.

ALGEBRA 1

Semester A

Introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations, and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found. Students learn through online lesson materials, videos, and interactive activities. The end of each unit tests students' understanding with a self-check quiz with feedback. Also included is a unit exam and project for students to apply what they have learned. Teacher feedback is provided throughout the semester.

Semester B

Algebra 1 (semester B) builds on the concepts learned in the first semester by providing a strong foundation in solving problems. Students will work with problems

and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability. Students will interact with course materials through online lessons, videos, interactive questions, and real-world applications. Each unit ends with a self-check quiz to confirm knowledge of the concepts learned. There is also a unit exam and project. Teacher feedback is given throughout the course.

GEOMETRY

Semester A

Geometry is the study of the measurement of the world. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through practical applications, the student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles, and trigonometric ratios. Geometry A consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.

Semester B

This course builds on the foundation of the first terms in Geometry. As in previous courses, deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students explore quadrilaterals and circles, and learn how an object is transformed, as well as how to represent that transformation algebraically and geometrically. Students calculate area and volume of 2-dimensional and 3-dimensional objects. Geometry B consists of six modules.

Each module comprises ten lessons for a total of 60 lessons in the course.

SOCIAL STUDIES

SOCIAL STUDIES 6

Semester A

The first semester of Social Studies 6 introduces students to the beginnings of ancient civilization. We will trace the path of human origins in Africa and follow the path of migration around the Earth. This course will help students understand why we study history and the process in which we form conclusions about events in the past. Students will begin to learn about the major ancient civilization around the world and their cultures. Modern civilizations can trace their foundations to these ancient civilizations, and their cultures and histories teach us much about ourselves and the modern world in which we live.

Semester B

In the second semester of Social Studies 6, students will continue to examine ancient civilizations and their cultures. In this semester we will continue to trace the path of human civilization from the Mediterranean through the Eastern world. An emphasis will be placed on critical thinking and connecting themes in history to our modern world.

SOCIAL STUDIES 7

Semester A

This study of the history of the United States emphasizes how ideas, events, and philosophies have shaped the nation. Students will learn about America's past while mastering the skills of historical interpretation. Study begins with the earliest arrivals of people and ends with the conclusion of the Civil War.

Semester B

This course is a continuation of the first semester with an emphasis on how historical ideas, events, and philosophies have shaped the United States. Beginning with Reconstruction, this course uses the same skill development approach to guide students through U.S. history to the present.

SOCIAL STUDIES 8

Semester A

In this course students will understand the significance of government, law, and politics. They will examine the United States foundational documents and how they shaped the United States government. Students will examine the purposes and functions of federal and state government, law, and political systems. Learners will evaluate their role and civic responsibility to their families, communities, and country including voting and being a productive member of society. Learners will follow a step-by-step approach for successfully completing each lesson, which includes textbook reading, interactive activities, supplemental reading, lecture, video clips, and Power Point presentations to enhance and reinforce learning. Learners receive frequent feedback from teacher and peers through discussions.

Semester B

This course takes a more individualistic approach as students closely examine topics such as the justice system, local government, the environment, and the economy. Learners will understand the role that they play in each of these topics and the differences that they can make. Students will get to know leaders and influential people that have championed many causes including civil rights and the environment. Learners will also learn proper ways to interact in society including

interpersonal skills and respecting differences in others including disabilities. By the end of semester B students will have a deeper understanding of their civic responsibilities as well as the difference one individual can make in society.

SCIENCE

LIFE SCIENCE

Semester A

Life Science is the study of cells, heredity, biological populations, and their changes over time. It includes human biology, ecology, diversity of organisms and the history and nature of science. In this course, students will have the opportunity to conduct and design experiments, identify, and classify organisms. Students will work on developing skills in data recording, classifying, measuring, observing, hypothesizing, analyzing, evaluation and inferring.

SEMESTER B

Life Science is the study of cells, heredity, biological populations, and their changes over time. It includes human biology, ecology, diversity of organisms and the history and nature of science. In this course, students will have the opportunity to conduct and design experiments, identify, and classify organisms. Students will work on developing skills in data recording, classifying, measuring, observing, hypothesizing, analyzing, evaluation and inferring.

EARTH & SPACE SCIENCE

Semester A

In the first semester students will learn about the scientific method and hone their understanding of using scientific measurements to Earth and Space Science. Also included are lessons on Earth maps and globes including detailed instruction on how

to find specific locations using latitude and longitude.

Much of the first semester focuses on space science. Students will learn about Earth movements, seasons, the Moon, tides, solar and lunar eclipses, the Sun, and its role as the main source of light and energy in the solar system. They will learn about planets, asteroids, meteors, comets, and their orbits and how force gravity holds it all together. Outside the solar system there are lessons on stars, constellations, nebula, the Milky Way, and galaxies beyond.

There have been many recent discoveries in space science. Accordingly, careful attention has been given to presenting the most updated information available in areas of discovery such as stars with planets and the latest methods of detecting them as well as a look at NASA's most recent Curiosity landing on the Martian surface.

Semester B

In the second semester study zeros in closer to home: Earth science. Yet, the coursework is uniquely integrated and applied to disciplines of study outside of Earth science. Starting with the Earth's interior students study rocks and minerals, volcanoes, earthquakes, undersea ridges, trenches, and mountains and how the study of Earth's geologic history helps explain these phenomena.

On the Earth's surface students study weathering, soil, and erosion as well as water in all its forms the water cycle, oceans, and ocean currents.

Above the Earth they will study the atmosphere: its composition, air pressure and air movement. This knowledge is then applied to lessons on how human populations are affected by natural

resources, renewable and non-renewable, both on and inside the Earth.

These lessons are integrated with lessons that discuss how humans and living organisms are affected by air and water pollution, acid rain, changes in the ozone layer and how these conditions influence biodiversity, habitat loss and species survival.

The course is capped off by lessons that take an in-depth look at the process of technology design giving students a look at how scientists and technical designers work together to achieve common goals.

Lastly, students are taught about the kinds of professions that currently exist in the science and technology fields and learn about the necessary academic preparation needed to gain employment in these branches of study.

PHYSICAL SCIENCE

Semester A

This is an introduction to the Physical Sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom, and reinforced through homework reading, and interesting labs that relate to everyday life.

Semester B

This is an introduction to the Physical Sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom, and reinforced through homework reading, and interesting labs that relate to everyday life.

WORLD LANGUAGES

SPANISH 1

Spanish 1, Semester A, is an introduction to Spanish language and culture. Students learn to start with the basics of greetings and basic conversation, working to incorporate ideas from their life and experiences in Spanish conversation. This will be accomplished through written and verbal expression of the Spanish language.

Building upon Semester A, Spanish 1 Semester B expands to asking questions and conversational Spanish throughout one's neighborhood and daily life. Through real-life scenarios and learning examples, students will describe situations, in Spanish, both verbally and written.

SPANISH 2

Students build upon the foundation developed in Spanish 1. They continue to build vocabulary, learn new verb tenses and other grammar concepts, and they increase their ability to communicate with others. They learn new concepts, like reflexive verbs, infinitive expressions, commands, the imperfect tense. Semester B will continue building on vocabulary, grammar concepts and communicating effectively in the target language. You will explore new countries where Spanish is spoken and continue to keep abreast of current events in the Spanish-speaking world.

PHYSICAL EDUCATION

P.E.

To improve and maintain optimum health, it is necessary for people of all ages to participate in physical exercise. There is little doubt that, in addition to students in schools, the number of adults participating in sports and recreational activities in the United States has increased in recent years. Physical education is much more than just fitness and exercise. A well-planned program will cause you to think and express your emotions about different situations. In addition, a good program can make a valuable contribution to your education. These experiences will help you develop a sense of wellness.

Emphasis in this course is placed on the value of these sports as possible lifetime activities and on creating a clear explanation of the rules and basic principles of a variety of sports. The sports covered in this course are archery, bicycling, golf, skiing, tennis, volleyball, baseball, basketball, football, hockey, and soccer.

Information about the playing area and equipment, basic rules, safety considerations, and terminology for each sport are included in the discussions. For the most part, the information presented in each lesson applies to sports programs throughout most sections of the United States.

Middle School Electives

- 2D Studio Art **
- Career Explorations 1**
- Career Explorations 2**
- Character Education
- Coding 1A**
- Coding 1B**
- College & Career Readiness 6, 7, & 8
- Computer Basics
- Digital Arts & Design**
- Fitness**
- Game Design 1A**
- Game Design 1B**
- Health
- Journalism**
- Study Skills

** Class is available through eDynamics

High School Courses

ENGLISH

ENGLISH 9A, 9B *

Semester A

English 1 is an integrated curriculum. Each unit contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking, and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of and details and reasoning to support ideas. Speaking and listening lessons in Semester A emphasize collaborative discussion skills and peer review. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Semester B

Like semester A, semester B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes,

including oral and multimedia presentations.

ENGLISH 10A, 10A *

Semester A

English 2A is an integrated curriculum, with each unit consisting of thematically related lessons in five domains: analyzing literature, analyzing informational text, writing, speaking, and listening, and language study, which includes word knowledge and grammar skills. The skills that students practice for this course are like the skills in English 9 but require more independence and depth of thought. An introductory lesson at the start of each unit helps students identify any areas of weakness and review those topics before starting the more challenging grade 10 lessons. Writing assignments required in Semester A of this course include fiction, expository, and persuasive, and analytical models, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons in Semester A cover collaborative discussion skills, the peer review process, and how to plan and deliver informative speeches and presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Semester B

Like semester A, semester B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms

of literature and as well as the evaluation of various modes and forms of writing. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

ENGLISH 11A, 11B *

Semester A

English for grade 11 is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundation works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in five domains: analyzing literature, analyzing informational text, writing, speaking, and listening, and language study, which includes word knowledge and grammar skills. Each module or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works.

Writing modes addressed in Semester A of this course include narrative, reflective, persuasive, and analytical modes.

Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that

demonstrate key features of each mode. The speaking and listening lessons in Semester A cover rhetoric, the peer review or writing workshop process, and performance skills. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

Semester B

Semester B of English 11 consists of units focused on historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literature analysis lessons in semester B focus on the forms of literature that were most written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

ENGLISH 12A, 12B *

Students examine major works of literature organized into thematic units. Each unit contains poetry, short stories, and a novel that revolve around the theme for the unit. Themes include the self, relationships,

alienation, choice, and death. As students read these works, they can reflect on these important themes by writing in multiple modes and creating cross-disciplinary projects.

MATH

ALGEBRA 1A, 1B *

Semester A

Introduces students to the world of Algebra through expressions and equations.

Students will evaluate algebraic expressions, solve linear equations, and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found.

Students learn through online lesson materials, videos, and interactive activities. The end of each unit tests students' understanding with a self-check quiz with feedback. Also included is a unit exam and project for students to apply what they have learned.

Semester B

Algebra 1 (semester B) builds on the concepts learned in the first semester by providing a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability. Students will interact with course materials through online lessons, videos, interactive questions, and real-world applications. Each unit ends with a self-check quiz to confirm knowledge of the concepts learned. There is also a unit exam and project.

Teacher feedback is given throughout the course.

ALGEBRA 2A, 2B *

Semester A

Further extends the learner's understanding of major algebra concepts such as expressions, equations, functions, and inequalities. An emphasis will be placed on the use of appropriate functions to model real world situations and solve problems that arise from those situations. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph.

Algebra 2 (semester B) builds on the concepts learned in the first semester and prepares the learners with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics.

CONSUMER MATH A, B

This course focuses on the mathematics involved in making wise consumer decisions. Students explore the many ways in which mathematics affects their daily lives. The first semester will cover paychecks and wages, taxes, insurance, budgets, bank accounts, credit cards, interest calculations, and comparison shopping. Second semester topics include vehicle and home purchasing, investing, and business and employee management.

GEOMETRY A, B *

Semester A

Geometry is the study of the measurement of the world. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through practical

applications, the student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles, and trigonometric ratios. Geometry A consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.

Semester B

This course builds on the foundation of the first terms in Geometry. As in previous courses, deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students explore quadrilaterals and circles, and learn how an object is transformed, as well as how to represent that transformation algebraically and geometrically. Students calculate area and volume of 2-dimensional and 3-dimensional objects. Geometry B consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.

SOCIAL STUDIES

WORLD HISTORY A, B *

Semester A

World History begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Semester A covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western

Europe. The second half of Semester A explores early intellectual, spiritual, and political movements and their impact on interactions among world cultures.

Semester B

Semester B applies the reading and analytical strategies introduced in Semester A to the events and movements that created the modern world. In the second semester, World History emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion as well as the impact of European colonization. Students are encouraged to make connections between World War I and II and events related to the Cold War and between 19th-century imperialism and modern independence movements.

AMERICAN HISTORY A, B *

Semester A: Creation of a Nation

This course covers the discovery, development, and growth of the United States. Major topics include American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History I is a survey of the struggle to build the United States of America from the colonial period to the beginning of the twentieth century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the

facts and dates of history are just the beginning: each student must understand how history affects him or her.

Semester B: Expansion of a Nation

American History B begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. This course begins with an assessment of life in United States Pre-World War I and ends with the conflicts of the new millennium. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context.

AMERICAN GOVERNMENT *

This course will guide students through an in-depth study of the history, structure, and guiding principles of American government. The first unit will review the origins of government in general and American government in particular—from the earliest models for democracy to the founding

documents that created a federalist system of government in the U.S. Several units will help students explore the roles and responsibilities of each branch of government as well as the impact that the Constitution has had and continues to have on the way government works and on the lives of individual Americans. The course's final unit will guide students through a series of projects that require them to apply what they have learned about American government to an issue that interests them.

ECONOMICS *

This course introduces the principles and the applications of economics in everyday life. Students develop an understanding of limited resources and compare it with unlimited wants and needs. Students learn how individual and national economic decisions are made to allocate goods and services among to think, and problem solve. The study of Economics uses the view of economic institutions and policies to explore the history, organization, and functions of the U.S. government in controlling our economy. It offers students learning opportunities that build one on another. A goal of the course is for the student to develop the critical skills of analysis, synthesis, and evaluation in a demanding and thoughtful academic setting. Students are encouraged to use their knowledge of the policies and institutions of economics to develop their own views on current economic and monetary issues. They are taught how to apply what they have learned into personal financial activities. The course looks closely at the economic knowledge and values of the country and gives students a look into the problems faced by presidents, and congressional representatives. It also covers

the roles of political activists, political parties, interest groups, and the media in shaping the U. S. economy. The Supreme Court is presented as the voice of reason in the balance of powers. Students are encouraged to perform at higher levels as they are presented with historical documents and additional readings, work with a set of facts arranged by theme, become skillful in notetaking, and join in student discussions. Students develop and demonstrate their writing skills by preparing extended research-based papers.

SCIENCE

BIOLOGY A, B *

Semester A

Biology A introduces students to the scientific method and the major concepts of biology from an historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that have transformed the daily routine, from conception to death. New challenges await, such as the current crisis in ecology, global warming, and the resurgence in viral disease. To make rational choices in the 21st century, the citizen must have a basic understanding of biological concepts and the reasoning behind them. Biology A is presented in a multimedia format using interactive

modules, labs, narrated animation, text, and videos to present the study of life on this planet. Students work through and complete several self-check activities and quizzes for practice and participate in self-reflection. In each unit, students complete the unit exam and deliver a unit project. Teacher feedback is provided throughout the course.

Semester B

Biology B is a continuation of the basic course in biology, Biology A. The major concepts covered are population dynamics and evolution. Students explore population dynamics through the study of mutualism, predation, parasitism, and competition. The theory of evolution is presented, along with the many evidence and details that make evolution the backbone of modern biology. From biochemistry to evolution, biology fascinates people. Biochemists first astounded the world by showing that life obeys the same chemical principles as all creation, but that life engineer's chemistry to its own needs. Decades later, Darwin shocked the world by suggesting that life evolves according to the conditions of the environment it inhabits. Evolution, often debated and derided, has survived to become a key concept of biology. This second course in biology examines the wonder of life and its mechanisms. Students work through and complete several self-check activities and quizzes for practice and participate in self-reflection. In each unit, students complete the unit exam and deliver a unit project. Teacher feedback is provided throughout the course.

CHEMISTRY A, B *

Semester A

In this course, students will discover what chemistry is, and how it is used and found all around us. The importance of the scientific method to solve real world problems will be investigated. Knowledge will be gained in the following areas: types of matter, atomic structure, chemical periodicity, chemical formula writing and naming, chemical equations. This course will also stress the important relationship between math and science while studying measurement, metric system, and stoichiometry. Students will use higher order thinking throughout the entire course. An algebra background is recommended because of the amount and type of math involved.

Semester B

It follows the Chemistry 1 A course. In Chemistry 1 B, students will investigate chemical bonding, thermochemistry, and acids and bases. The importance of the scientific method to solve real world problems will be investigated. Knowledge will be gained in the following areas: organic chemistry, biochemistry, and nuclear chemistry. This course will also stress the important relationship between math and science. Students will use higher order thinking throughout the entire course. An algebra background is recommended because of the amount and type of math involved.

EARTH SCIENCE A, B

Semester A

The first three modules of Semester 1 cover Scientific Inquiry, the Structure and Composition of the Universe, and the

Features of the Solar System. Students learn the importance of scientific inquiry and how to communicate the results of scientific investigations. They then have material on the formation of the universe, including the Big Bang Theory, the motions of celestial objects, and stellar evolution. The third module covers material related to the Solar System, including features of the Sun and the planets and the movements of Earth. The second three modules of Semester 1 cover Weather, Climate, and Earth's Water Cycle. Students first learn in Module 4 about the atmosphere and clouds, as well as the factors that influence local and global climate. In Module 5 they continue by learning about weather and air masses, meteorology, and storms. Module 6 then discusses the water cycle, including groundwater and ocean features, as well as water scarcity and pollution.

Semester B

The first three modules of Semester 2 cover the physical structure of the Earth and Earth's tectonic system, including the rock cycle, tectonic activity, and mountain building. It then covers weathering and erosion and soil formation. The next material in the course then addresses the concept of systems; it addresses the Earth as a system, feedback in systems, and Earth's major nutrient cycles. The second three modules of Semester 2 cover geologic history, including the evolution of Earth's atmosphere, the geologic time scale, and the fossil record. It then goes over natural resources and the effects of human population on natural resources. The course wraps up with a discussion of human society and its interconnectedness with the Earth's environment, how science and

technology work together, and the technological design process in earth science applications.

PHYSICS A, B *

Semester A

Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton's laws of motion before concluding the course with an examination of circular motion. Students apply mathematical concepts such as graphing and trigonometry to solve physics problems. Throughout the course, students apply their understanding of physics by playing roles like science museum curator and elementary teacher.

Semester B

Physics B continues the student's exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, nuclear science, and relativity. This is a trig based course. It is assumed you know and can use trigonometry.

WORLD LANGUAGES

AMERICAN SIGN LANGUAGE 1A**

Did you know that American Sign Language (ASL) is the third most used language in North America? American Sign Language 1a: Introduction will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture – social beliefs, traditions, history, values, and communities influenced by deafness.

AMERICAN SIGN LANGUAGE 1B**

The predominant sign language of Deaf communities in the United States, American Sign Language is a complex and robust language. American Sign Language 1b: Learn to Sign will introduce you to more of this language and its grammatical structures. You will expand your vocabulary by exploring interesting topics like Deaf education and Deaf arts and culture.

AMERICAN SIGN LANGUAGE 2A**

Building upon the prior prerequisite course, emphasis in this course is placed upon comprehension and signing. Learners will also continue to establish their communication skills and foster their understanding of deaf culture. In addition to learning classifiers, glossing, and mouth morphemes, students will explore vocabulary for descriptions, directions, shopping, making purchases, and dealing with emergencies.

AMERICAN SIGN LANGUAGE 2B**

Building upon the prior prerequisite course, students will increase their proficiency by learning about sequencing, transitions, role-shifts, and future tenses. Students will learn how to tell a story and ask questions, benefiting with greater exposure to deaf

culture. Speed, conversations, signing skills, and cultural awareness are characteristic of this course.

Arabic 1A, 1B*

In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

Arabic 2A, 2B *

In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries

Arabic 3A, 3B*

In the third level, you will reach a higher level of grammar and vocabulary mastery while enriching your speaking skills. You will study tourism and recreation, professions, and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Continue to explore the culture of the language speaking countries.

FRENCH 1A, 1B *

French 1 focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and

fosters cultural understandings through exposure to native speakers and their daily routines

FRENCH 2A, 2B *

Semester A

Semester A focuses on the continuation and enhancement of language skills presented in Level 1. Vocabulary and grammar structures are revisited and expanded to provide students an opportunity to move towards an intermediate comprehension level. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities, reading of culturally related articles of interest and responding to reading in the target language. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Semester B

Semester B continues the enhancement of language skills. Vocabulary and grammar structures are revisited and expanded as students explore other French-speaking areas. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities related to travel, to the Olympics, to natural disasters, and to the space program. Reading of culturally related articles of interest and responding to reading in the target language, along with the use of technology, reinforces authentic language development and fosters cultural

understandings through exposure to native speakers and their daily routines.

GERMAN 1A, 1B *

Semester A

This German 1A course is an introductory course teaching basic comprehension and communication in German. It coordinates the study of language with culture using video, audio, and mass media production. This course assumes prior or no knowledge of the German language. It introduces the fundamentals of conversational and grammatical patterns of the German language with presentations to present the material. Students who complete the course successfully will begin to develop a functional competency in the four primary language areas: speaking, reading, listening, and writing, while establishing a solid grammatical base and exploration into German culture.

Semester B

The second semester course will expand on the knowledge gained from German 1A and further develop their skills in pronunciation, grammar skills, grammar structures and vocabulary. Oral practice (via Voice Tools), homework assignments, games, songs, watching videos, quizzes, tests, projects, and other activities such as writing wikis and journal entries, will be emphasized to accomplish this goal. The different cultures of the German-speaking world are emphasized through readings, videos, and other activities. Taking the time to learn another language is a mind-expanding activity that can open a world of opportunities and advantages.

GERMAN 2A, 2B *

Semester A

In this course, students build on grammar and language skills that they acquired during their G1A and G1B courses. While reviewing basic grammar skills, (present and past tenses), students learn and study stem-changing verb conjugation and explore cultural themes regarding current events, famous German people, music, and famous festivals.

Semester B

In the second semester course, students increase their proficiency in being able to communicate by forming more complex German sentences in a variety of tenses using all four cases (Nominative, Accusative, Dative and Genitive). The variety of topics increases also, from exploring different careers to discussing relationships. Cultural themes are entwined throughout this course related to going shopping, to going to the zoo and to travel throughout the German-speaking world.

LATIN 1A, 1B *

In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

LATIN 2A, 2B *

In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and

places and events. Continue to explore the culture of the language speaking countries.

MANDARIN 1A, 1B *

In the first level, you will learn the language basics, greetings and introductions, work and school, shopping, travel, and about past/future as you build grammar and vocabulary of the language. You will also learn about the culture of the language speaking countries.

MANDARIN 2A, 2B *

In the second level, you will continue to build your grammar, vocabulary, and speaking skills as you explore friends and social life, dining and vacation, home and health, life and world, everyday things, and places and events. Continue to explore the culture of the language speaking countries.

MANDARIN 3A, 3B *

In the third level, you will reach a higher level of grammar and vocabulary mastery while enriching your speaking skills. You will study tourism and recreation, professions, and hobbies, at home and around town, style and personal wellness, business and industry, and arts and academics. Continue to explore the culture of the language speaking countries.

SPANISH 1A, 1B *

Spanish 1, Semester A, is an introduction to Spanish language and culture. Students learn to start with the basics of greetings and basic conversation, working to incorporate ideas from their life and experiences in Spanish conversation. This will be accomplished through written and verbal expression of the Spanish language. Building upon Semester A, Spanish 1 Semester B expands to asking questions and

conversational Spanish throughout one's neighborhood and daily life. Through real-life scenarios and learning examples, students will describe situations, in Spanish, both verbally and written.

SPANISH 2A, 2B *

Students build upon the foundation developed in Spanish 1. They continue to build vocabulary, learn new verb tenses and other grammar concepts, and they increase their ability to communicate with others. They learn new concepts, like reflexive verbs, infinitive expressions, commands, the imperfect tense. Semester B will continue building on vocabulary, grammar concepts and communicating effectively in the target language. You will explore new countries where Spanish is spoken and continue to keep abreast of current events in the Spanish-speaking world.

SPANISH 3A, 3B *

Students continue to develop their ability in reading, writing, speaking, and understanding Spanish through a systematic review of its structure. Students focus on applying vocabulary in a wider array of situations by learning about the past progressive and subjunctive moods and the present perfect, future, and conditional tenses.

PHYSICAL EDUCATION

P.E.

In this course, students are introduced to exercise and physical fitness and the general recommendations for physical activity, while examining the benefits of exercise, lifestyle choices that can help prevent disease, and tips for kick-starting a healthier lifestyle. Students will explore each type of fitness, include the benefits,

and the federal guidelines for exercise in detail. Students will also learn about bones and joints and the functions of the skeleton, and the different types of movements that occur at various joints. Students will learn about the different types of muscle in their bodies, and how they are structured, with particular attention to the different types of muscle fibers. Students will explore the functions that muscles perform, how they work, and their interaction with the central

nervous system and special considerations for safe and effective exercise. Students will learn how the cardio and respiratory systems work and interact with each other and about the different blood vessels that make up the circulatory (vascular) system. Students will learn about the body's energy systems and how eating and drinking relates to exercise. Finally, students will learn about the psychology of exercising

High School Electives & CTE

ARTS

- Art Appreciation
- Art History
- Music Appreciation
- Theater Studies

ENGLISH

- Creative Writing A & B

History

- Civics

HEALTH

- Health A & B
- Individual & Team Sports
- Medicine
- Personal Fitness

SCIENCE

- Anatomy & Physiology A & B
- Marine Science
- Renewable Energy
- Space Exploration

CAREER ELECTIVES

Architecture and Construction

- Architectural Design *
 - Autodesk Certified User (ACU) in AutoCAD
- Architectural Design II
- Building Maintenance Technology, I
- Building Maintenance Technology II *
 - OSHA 30 Hour Construction
- Construction: Fundamentals and Careers
- LEED Green Associate *
 - LEED Green Certified Associate
- Principals of Architecture

Arts, A/V Tech & Communications

- Adobe Illustrator *
- Adobe InDesign *
- Adobe Photoshop *

Business Management & Administration

- Entrepreneurship & Small Business *
- Startups and Innovation

Finance:

- Career Exploration in Finance
- Fundamentals of Bitcoin & Cryptocurrency

Education & Training

- Early Childhood Education I
- Early Childhood Education II *
 - Child Development Associate (CDC)
- Introduction to Education & Teaching

Health Science

- Career Exploration in Dentistry
- Career Exploration in Healthcare

Information Technology

- Cloud Technologies and the Internet of Things
- Cybersecurity
- Fundamentals to Blockchain & Cryptography
- Introduction to Artificial Intelligence
- Java SE 8 Associate
 - Oracle Certified Associate (OCA)

STEM:

- Aeronautics and Space Travel
- Augmented and Virtual Reality Application
- The History of Gaming and Esports
- Wearable Technology Innovations

Transportation, Distribution & Logistics

- Drones: Remote Pilot
 - FAA Part 107 Remote Pilot Certificate
- Smart Cities: Technology and Applications
- Transportation Technologies

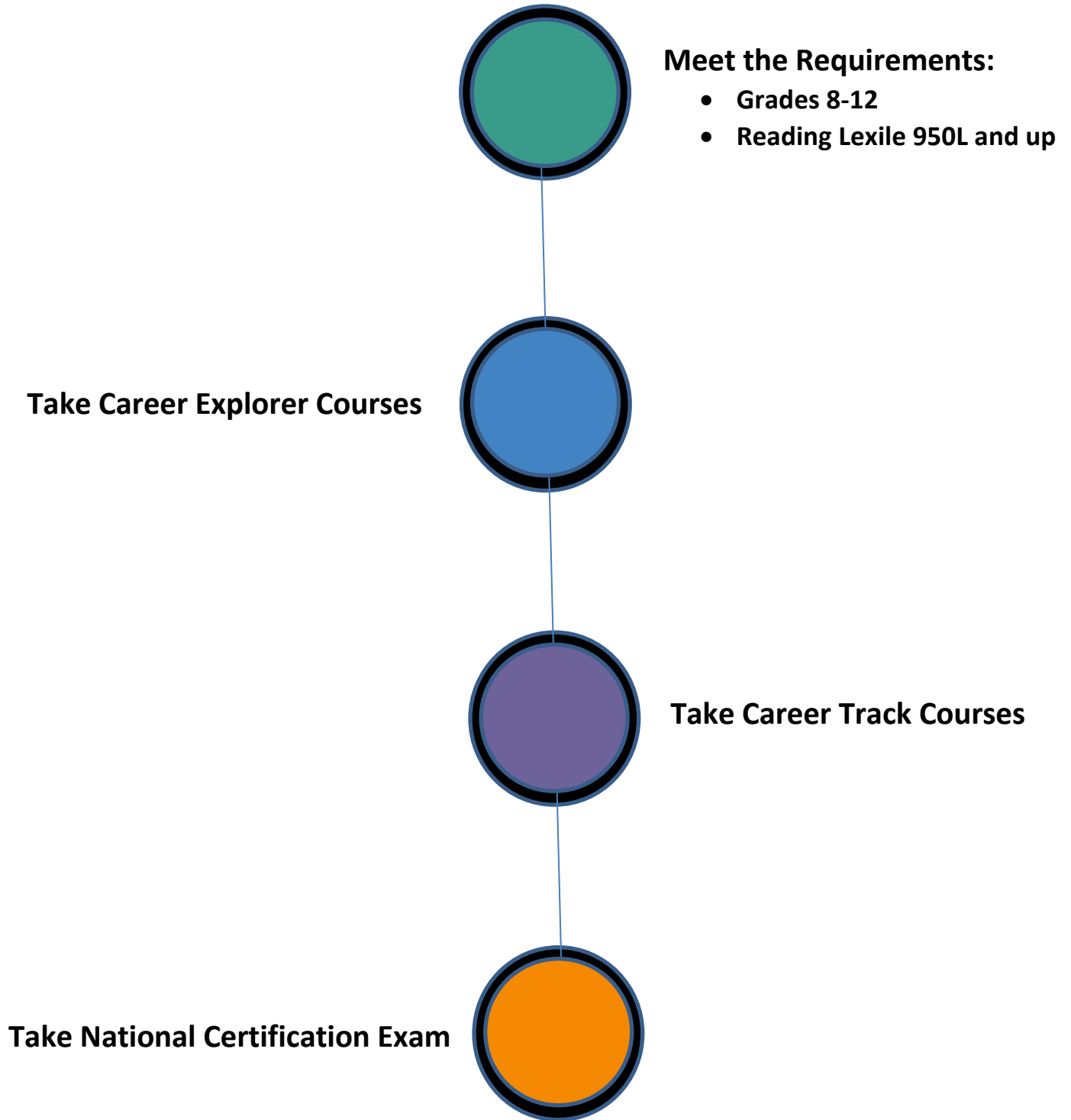
Multiple Pathways

- Project Management
 - PMI Project Management Ready Certification

* Career Certification Course

High School Career Certifications

HOW IT WORKS?



CAREER EXPLORER COURSES *

- **Principles of Information Technology 1A, 1b**

Career Track and Courses

Cybersecurity Specialist

- Network Security Fundamentals 1A, 1B
- Operational Cybersecurity 1A, 1B

Network Systems Specialist

- Introduction Networking 1A, 1B
- Advanced Networking 1A, 1B
- Computer Maintenance 1A, 1B

Web Developer

- Web Development 1A, 1B, 2A, 2B

Game & Animation Designer/Programmer

- Foundations of Game Design 1A, 1B
- Game Design 2A, 2B

Digital Media/Web Designer

- Digital Media Fundamentals 1A, 1B
- Digital Media Website Design 2A, 2B

Computer Programmer/Software Developer

- Programming 1A, 1B, 2A, 2B, 3A, 3B

HEALTH SCIENCES

CAREER EXPLORER COURSES

- **Health Science Foundations 1A, 1B**
- **Anatomy and Physiology 1A, 1B**
- **Medical Terminology 1A, 1B**
- **Health Science Theory 1A, 1B**

Career Track and Courses

Sports Medicine

- Sports Medicine 1A, 1B, 2A, 2B
- Pharmacology 1A, 1B

Emergency Medical Responder

- Emergency Medical Responder 1A, 1B, 2A, 2B
- Pharmacology 1A, 2A

Dental Assistant

- Dental Assistant 1A, 1B
- Pharmacology 1A, 1B

Nursing Assistant

- Nursing Assistant 1A, 1B
- Pharmacology 1A, 1B

EKG/ECG Technician

- Medical Diagnostic Tech 1A, 1B
- EKG Technology 1A, 1B
- Medical Microbiology 1A, 1B
- Pathophysiology 1A, 1B

Medical Lab Assistant

- Medical Lab Assisting 1A, 1B
- Medical Microbiology 1A, 1B
- Pathophysiology 1A, 1B

BUSINESS MANAGEMENT & ADMINISTRATION

Career Explorer Courses

- **Business Information Management 1A, 1B**

- **Principals of Business, Marketing, and Finance 1A, 1B**

Career Track and Courses

Administration Specialist

- Office Administration 1A, 1B
- Digital Design 1A, 1B
- Business Communications 1A, 1B
- Business Information Management 2A, 2B
- Touch Systems Data Entry

Medical Office Administrative Specialist

- Office Administration 1A, 1B
- Medical Office Administration 1A, 1B
- Touch Systems Data Entry

Sales Professional

- Marketing Foundations 1A, 1B
- Professional Sales and Promotion 1A, 1B

Legal Administrative Specialist

- Office Administration 1A, 1B
- Business Law 1A, 1B
- Legal Administration 1A, 1B
- Business Information Management 2A, 2B
- Touch Systems Data Entry

Manager

- Management 1A, 1B, 2A, 2B
- Business Law 1A
- Business Information Management 2A, 2B
- Human Resource Management
- Global Business 1A, 1B