
RESOLUTION RANCH ACADEMY



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RESOLUTION RANCH ACADEMY SCHOOL HANDBOOK AND COURSE CATALOG 2022-2023

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About the Resolution Ranch Program and School

Resolution Ranch is a therapeutic residential facility for troubled teen boys ages 13-17. We offer solutions to families dealing with the negative influences in today's teenage environment. Our program is designed around addressing the need for behavioral modification of young men dealing with or suffering from discipline problems, lack of respect for authority or the law, poor academic achievement, family dysfunction, substance abuse and addiction, self-mutilation, violent tendencies, and depression. We are located on a beautiful ranch, far from drug and alcohol temptations, sex, and peer pressure. Resolution Ranch is a safe place where teen boys are free to find their true selves and get in touch with the values they may have forgotten. The leadership team, which includes our Founder, the Board, and Staff, created the following mission statement:

Mission Statement

“The mission of Resolution Ranch is to assist teens in the reintegration of values, to establish discipline, and assisting in the building of character through physical, spiritual, emotional, and academic development.”

This vision is the guiding principle of our program. This statement's philosophy is based on a commitment to personal growth through change, honesty, trust, experiencing nature, and people helping people. We employ this philosophy in all of our day-to-day activities in this program. We are a family - a group of people involved in the total sharing of our lives. We know that change happens as a result of meaningful sharing and honest relationships. We also know that growth in honesty, trust, improved relationships, responsibility, and stress management will reduce the dependence on unmanageable behavior, thus increasing the child's ability to find joy and fulfillment in his life. Our commitment to this can be summarized in our motto:

Resolution Ranch Academy Motto

“Recovery and Academics through Nature, Counseling, and Healing”

Texas Education Agency Model

Most Students enrolled at Resolution Ranch Academy will be returning to public schools. Therefore, Resolution Ranch Academy has modeled its graduation plans after requirements established by the Texas Education Agency (TEA). We also strive to ensure our courses follow TEKS guidelines and similar scope and sequences where possible. To that end, Resolution Ranch Academy has had a close working relationship with Edmentum online curriculum providers. They help to keep our courses in line with state and national standards as closely as possible. Although most of our students are in-state, we do enroll several out-of-state students a year. Where applicable, Resolution Ranch Academy will work with the schools students will be returning to when choosing which courses to enroll the students.

Resolution Ranch Academy High School Graduation Requirements

Resolution Ranch Academy models its graduation requirements based on state high school graduation requirements. We offer three graduation plans, a minimum graduation plan as 22 credits, a recommended plan at 26 credits, and a distinguished plan at 26 credits. Below is a side-by-side comparison of each graduation plan.

Discipline	Minimum	Recommended	Distinguished
English Language Arts	Four credits: <ul style="list-style-type: none"> English I English II English III English IV or approved advanced English course <p>Note: Resolution Ranch Academy strongly recommends one of the following for the 4th credit of ELA: English IV or AP English Literature</p>	Four credits: <ul style="list-style-type: none"> English I English II English III English IV or approved advanced English course <p>Note: Resolution Ranch Academy strongly recommends one of the following for the 4th credit of ELA: English IV or AP English Literature</p>	Four credits: <ul style="list-style-type: none"> English I English II English III English IV or approved advanced English course <p>Note: Resolution Ranch Academy strongly recommends one of the following for the 4th credit of ELA: English IV or AP English Literature</p>
Mathematics	Three credits: <ul style="list-style-type: none"> Algebra I Geometry An Advanced Math course. <p>Note: Resolution Ranch Academy recommends Algebra II for the Advanced Math course.</p>	Four credits: <ul style="list-style-type: none"> Algebra I Geometry Algebra II An additional Math Course <p>Note: Resolution Ranch Academy recommends the following for the 4th math credit: Pre-Calculus, Math Models, or statistics.</p>	Four credits: <ul style="list-style-type: none"> Algebra I Geometry Algebra II An additional Math Course <p>Note: Resolution Ranch Academy recommends the following for the 4th math credit: Pre-Calculus, Math Models, or statistics.</p>

Science	Two credits: <ul style="list-style-type: none"> • Biology • IPC or Chemistry and Physics (one of the two serves as an academic elective) 	Four credits: <ul style="list-style-type: none"> • Biology • Chemistry • Physics • An additional science credit 	Four credits: <ul style="list-style-type: none"> • Biology • Chemistry • Physics An additional science credit
Social Studies	Three credits: <ul style="list-style-type: none"> • World History or World Geography • U.S. History • U.S. Government (1/2 credit) • Economics (1/2 credit) 	Four credits: <ul style="list-style-type: none"> • World Geography • World History • U.S. History • U.S. Government (1/2 credit) • Economics (1/2 credit) 	Four credits: <ul style="list-style-type: none"> • World Geography • World History • U.S. History • U.S. Government (1/2 credit) • Economics (1/2 credit)
Physical Education	One credit	One credit	One credit
Languages other than English	None	Two credits of the same language	Three credits of the same language
Fine Arts	One credit	One credit	One credit
Speech	½ credit from either of the following: <ul style="list-style-type: none"> • Communications Applications • Professional Communications 	½ credit from either of the following: <ul style="list-style-type: none"> • Communications Applications Professional Communications	½ credit from either of the following: <ul style="list-style-type: none"> • Communications Applications Professional Communications
Electives	Seven- and one-half credits (one must be an academic elective)	Five- and one-half credits	Four- and one-half credits

STAAR EOC Assessment Statement

Although Resolution Ranch Academy does try to follow the TEA model as closely as possible, we are not accredited under that agency. We are a private school accredited under the Southern Association of Colleges and Schools. Therefore, we do not administer the STAAR EOC assessments for our students. Students are not responsible for the STAAR while enrolled at Resolution Ranch Academy.

College Readiness and the TSI (Texas Success Initiative)

We strive to ensure that every student that graduates from high school at Resolution Ranch Academy is college-ready. We will have students prepare for, schedule, and transport students to any exam needed for college attendance. Students are considered “college-ready” if the minimum scores are in one of the following areas:

College Readiness Minimum Scores		
College Readiness Measure/ Test	Reading and Writing Exemption	Math Exemption
SAT (Before March 5, 2016)	Reading 500 Composite score = 1070 (Reading and Math Composite Score of 1070, which includes a 500 on the Reading Test)	Math 500 Composite score = 1070 (Reading and Math Composite Score of 1070, which includes a 500 on the Math Test)
SAT (March 5, 2016, and later)	Reading 480 (Evidence-Based Reading & Writing - EBRW)	Math 530
ACT	Reading 19 Composite score = 23 (which includes a 19 in reading)	Math 19 Composite score = 23 (which includes a 19 in math)
Success Initiative Assessment (TSIA) (not available after January 15, 2021)	Before Fall 2017: Reading 351; Writing 5/350 or 4/363 on Essay/Multiple-Choice After Fall 2017: Reading 351; Writing 5 or 4/340 on Essay/Multiple-Choice	2018-19: Math 350
Success Initiative Assessment 2.0 (TSIA2)	ELAR (English Language Arts & Reading): A score in the range of 945–990 on the ELAR CRC Test and a score of at least five on the Essay Test or an ELAR CRC Test score below 945 and an ELAR Diagnostic Test score of 5 or 6 and an Essay Test score of 5 or higher.	Mathematics: A score in the range of 950–990 on the Mathematics CRC Test or a Mathematics CRC Test score below 950 and a Mathematics Diagnostic Test score of 6.

Upon high school graduation, students must meet the college readiness standard or will be required to pay for developmental classes at the college they are attending, which can be quite expensive, both in time and money, plus not count towards a degree. Free test preparation is available from Austin Community College (<http://www.austincc.edu/support-and-services/tutoring-and-academic-help/assessment-study-materials>).

The scores are valid for five years. After the student has participated in the required Pre-Assessment Activity, the TSI can be taken during specific times at the high school campuses. Check with the high school counselors for more information.

We also understand that not every student is college-bound. For students heading to trade school, Jr. Colleges, Community Colleges, or heading straight for the work-force, we will assist our students in every way we can to help ensure their success.

Grade Point Average (GPA) and Rank in Class (RIC)

Due to small and infrequent graduation ceremonies, Resolution Ranch Academy cannot provide a class ranking in any meaningful way. We will provide a class rank upon request; however, we could not provide one until the end of the Summer semester of that academic year. Resolution Ranch Academy's Summer semester end on the 31st of July every year.

Unweighted 4.0 GPA provided on transcripts

A total Grade Point Average (GPA) is calculated for each student using a simple unweighted 4.0 system (comparable to the 4.0 commonly used by colleges and universities). The GPA is a cumulative average of all semester grades earned in high school accredited course, beginning with the freshman year. At Resolution Ranch Academy, middle school courses counted for graduation credits are included in the GPA. Grade points are awarded based on the grading system used provided below.

Note: Resolution Ranch Academy does not offer AP, IB, TAG, or OnRamps courses. However, we will accommodate requests for these courses through outsourced online or correspondence courses. Resolution Ranch Academy's transcripts are cumulative, containing every course attempted, passed, or failed. The scale below represents how GPA is calculated.

Grade Points Table			
Numerical Grade	4.0 Scale All semester grades earned in state- accredited courses for high school	5.0 Scale Regular courses in English, Math, Science, Social Studies, and Languages other than English	6.0 Scale Advanced, IB, AP, TAG, and OnRamps courses in Science, English, Math, Social Studies, and Languages other than English
100	A / 4.0	5.0	6.0
99	A / 4.0	4.9	5.9
98	A / 4.0	4.8	5.8
97	A / 4.0	4.7	5.7
96	A / 4.0	4.6	5.6
95	A / 4.0	4.5	5.5
94	A / 4.0	4.4	5.4
93	A / 4.0	4.3	5.3
92	A / 4.0	4.2	5.2
91	A / 4.0	4.1	5.1
90	A / 4.0	4.0	5.0
89	B / 3.0	3.9	4.9
88	B / 3.0	3.8	4.8
87	B / 3.0	3.7	4.7
86	B / 3.0	3.6	4.6
85	B / 3.0	3.5	4.5
84	B / 3.0	3.4	4.4
83	B / 3.0	3.3	4.3
82	B / 3.0	3.2	4.2
81	B / 3.0	3.1	4.1
80	B / 3.0	3.0	4.0
79	C / 2.0	2.9	3.9

78	C / 2.0	2.8	3.8
77	C / 2.0	2.7	3.7
76	C / 2.0	2.6	3.6
75	C / 2.0	2.5	3.5
74	C / 2.0	2.4	3.4
73	C / 2.0	2.3	3.3
72	C / 2.0	2.2	3.2
71	C / 2.0	2.1	3.1
70	C / 2.0	2.0	3.0
Below 70	F / 0.0	0.0	0.0

General Information about the High School Program

Admission and Placement of New Students

Parents and guardians are responsible for assuring that the Resolution Ranch Academy receives the high school educational records for registering students. The school staff will evaluate transferring credits and how those courses align with Resolution Ranch Academy graduation requirements. The campus Director of Education is responsible for assessing educational records for students from international schools, home schooling programs, and non-accredited private schools and placing students with no academic records.

Auditing Classes

Parents and guardians are welcome to tour our facility and briefly observe our classes. However, to ensure our resident students' privacy, we do not allow course auditing in person or online.

Career Investigation

As students begin to consider their future careers, students must learn about career options and which ones may fit them best. Many online sources are available for student and parent exploration.

- Workforce Commission: <https://lmci.state.tx.us/explore/TSC/K12.asp> This site includes a self-assessment to help students discover their interests and career exploration, including job demand requirements, post-secondary institutions offering college or training for the careers, and financial information to help students reach their goals.
- Genuine: <http://www.genuine.org/career-and-technical-education> This site gives students and families the opportunity for interest assessment, career exploration, and college exploration.
- Career One Stop: <https://www.careeronestop.org/> This is a national site offering career exploration and college/training information.

The Resolution Ranch Academy staff, teachers, and therapists will work with students and family's to explore options. We hope to shine the light on the future's possibility and inspire our students to strive for the dreams.

Classification of Students by Grade Level

Grade classification is based on the actual number of credits students have earned upon completing each semester-length course.

- **Freshman:** 8th-grade completion required.
- **Sophomore:** 6 credits required.
- **Junior:** 12 credits required
- **Senior:** 18 credits required.

College Visits

Students who have completed Resolution Ranch Academy Levels 1 through 3 may be eligible for a pass to visit a College or Trade school under parental or guardian supervision.

Credit by Examination (CBE)

Due to the open enrollment policy here at Resolution Ranch Academy, students enroll with us before completing nearly all of a semester's class before enrollment. Out of fairness, we will offer Credit by Examinations for the semester in question. Credit by Examination may be given under extraordinary circumstances. The student must have completed at least 90% of that semester's course from the previous school. The course must be classified as incomplete by the previous school. The student must have attended the previous school within the last 30 days. If a failing grade was issued, the student is ineligible to take a CBE.

General Educational Development Exam (GED)

Occasionally, Students enrolling with Resolution Ranch Academy are so behind that a GED may be the best option. The Director of Education and the student therapist will discuss this option with the parents, guardians, and students in-depth before proceeding. Suppose it is determined that a GED is the best option. In that case, Resolution Ranch Academy will enroll the student in a GED study program and assist in scheduling and transportation where necessary. Resolution Ranch Academy does follow strick guidelines before allowing a student to pursue a GED:

- The student must be 17 or will be 17 at the time of the scheduled GED Exam.
- The student will not be allowed to start the GED study program until they have reached level 4 in the Resolution Ranch Program.
- Before the above two points, the student must continue working on regular High School classes to avoid taking the GED as an option.

FAFSA/TASFA

FAFSA (Free Application for Federal Student Aid) is a standard federal form used to determine a college-bound student's eligibility for most types of financial aid, including

- work-study programs,
- need-based and merit-based grants and scholarships, and
- federal government-backed student loans.

Completing the FAFSA does not commit a student or family to accept any student loan. If interested, the family may accept all or part of the student loans offered. The FAFSA becomes available on October 1. Seniors and their parents should complete the FAFSA by December 31 of the senior year. The income information is taken from the previous year's income tax filing.

See <https://fafsa.ed.gov/>.

TASFA (Application for Student Financial Aid) is designed for students who cannot complete the FAFSA. For more information, see <https://www.finaid.txstate.edu/more-info/TASFA.html>.

The Higher Education Coordinating Board determined the FAFSA/TASFA priority deadline to be January 15. All public colleges and universities may begin identifying eligible students to receive awards through state financial aid programs. However, some colleges will offer financial plans soon after the FAFSA is completed in the fall semester. Check with the campus counseling office for more information.

Tests: What, When, Why, How

ASVAB

The ASVAB is an optional career planning test offered free of charge on each high school campus as required by Senate Bill 1843. Participation is optional. This test can help with career planning by identifying and clarifying interests. Contact the campus counseling office for more information.

SAT and ACT

The **SAT** and the **ACT** are two different college entrance exams that most colleges and universities require high school students to take as part of the application process. While strong scores are valued, the college entrance exam score is just one of the many factors college admissions offices use to determine students' acceptance to their colleges. The ACT and the SAT have similar measurements but not identical content and skills, and they employ different score scales. The ACT Composite score is based on a scale of 1 to 36, while the SAT Total score ranges from 400 to 1600. Both the ACT and SAT are accepted at all colleges and universities in the United States. Registration information for these exams may be found at act.org and collegeboard.org.

PSAT

Recommended for college-bound students, the PSAT provides practice for the SAT. The PSAT assesses verbal and mathematical skills. Though the National Merit Scholarship Program's eligibility is determined by a student's junior year score on the PSAT, sophomores take the PSAT to receive personalized SAT practice through Khan Academy and other study programs.

TSIA (Success Initiative Assessment)

The TSIA is a state requirement for all students entering any public college/university (i.e., Austin Community College, A&M, State, Tech, UT, etc.). You must satisfy this requirement before college enrollment. You are exempt from the TSI Assessment if you meet one of the following two standards:

- ACT scores: composite score of 23 or above AND a minimum of 19 on both the English & Math subtests.
- SAT scores: SAT Math of 530 and Evidence-Based Reading and Writing (EBRW) of 480.

Equity, Culture, and Stakeholder Expectations

Introduction

At Resolution Ranch Academy, we are committed to fostering a culture of learning that is characterized by respect, fairness, equity, and inclusion, free from bias. We believe that it is the responsibility of all stakeholders, including students, teachers, therapists, Direct Care Staff, Administration, and guardians/parents, to work together to create and maintain a positive, supportive, and inclusive learning environment. This section of the School Handbook outlines the institution's practices regarding equity, culture, and expectations for stakeholders.

Practices Regarding Equity

Resolution Ranch Academy recognizes that equity means providing access to resources and support based on individual need. To that end, we strive to eliminate any barriers that may prevent students from reaching their full potential. Our staff works to assess and address the unique needs of each student and provide the necessary resources and support to meet those needs. We are committed to ongoing professional development and training to ensure that all staff members have the necessary knowledge and skills to support equitable outcomes for all students.

Culture of Learning

The culture of learning at Resolution Ranch Academy is centered on the values of respect, fairness, equity, and inclusion, and is free from bias. These values are evident in the attitudes, relationships, and practices of all staff members, as well as in the policies and procedures of the institution. All stakeholders are expected to uphold these values and contribute to a positive and supportive learning environment.

Stakeholder Expectations

At Resolution Ranch Academy, we strive to cultivate and maintain a culture that embodies the values of respect, fairness, equity, and inclusion, and is free from bias. Our stakeholders, including students, teachers, therapists, Direct Care Staff, Administration, and the guardians and parents of our students, play an important role in creating and sustaining this culture.

We expect all stakeholders to engage in behaviors that align with these values and promote a positive and inclusive learning environment. This includes treating all members of the community with dignity and respect, valuing diversity and cultural differences, and upholding policies and procedures outlined in the School Handbook.

We are committed to promoting equity and ensuring all members of our community have access to resources and support based on individual need. We encourage all stakeholders to be active participants in creating a positive, supportive, and bias-free environment for all students. By working together, we can ensure that Resolution Ranch Academy continues to be a place where all students can thrive and reach their full potential.

Conclusion

By working together, we believe that we can create and maintain a culture of learning at Resolution Ranch Academy that is characterized by respect, fairness, equity, and inclusion, and is free from bias. Our goal is to provide a positive, supportive, and inclusive learning environment that promotes academic and personal success for all students.

Individualized Instruction and Support

At our institution, we prioritize each student's unique needs and strengths by enrolling them in classes individually. With direct one-on-one tutoring support from our onsite teachers, students progress through courses tailored to their specific learning requirements.

Our teachers are empowered to modify assignments, tutorials, or curriculum to meet the individual needs of each student, subject to approval from the Director of Education. Modifications are based on any existing 504 plans, IEPs, educational psychological records, as well as in-classroom observations made while working with students through various courses and problems.

Collaborative Support for Emotional and Behavioral Needs

We understand that students may have emotional and behavioral needs in addition to their academic needs. Our institution is committed to addressing these needs by fostering a collaborative approach between teachers, the Director of Education, and each student's Therapist. Together, we work towards providing the necessary support to ensure our students' well-being and success.

To accommodate the diverse needs of our students, modifications may be made for both academic and non-academic concerns as they arise. We continuously strive to create an inclusive and supportive learning environment for all students.

Section 504 and Special Education Services

Resolution Ranch Academy will review all incoming records to determine how we can best help our students. We understand that these services are often hard-fought and won. The Resolution Ranch Academic program is highly individualized and self-paced. To that end, we will review any accommodations and identify how they can be accommodated. A review of the accommodations and how we can help will be reviewed and agreed to by Resolution Ranch Academy and the students' parents or guardians.

Accommodations for Students with 504 Plans and Learning Disabilities

At Resolution Ranch Academy, we strive to support the diverse needs of our students. The following accommodations are commonly implemented to assist students with 504 Plans and learning disabilities:

Extended Time on Assignments and Assessments: We do not have a specific policy on how long a student can take on an assessment or assignment. However, we do keep track of assessment and assignment due dates.

Preferential Seating: Seating is determined on an ongoing basis, based on academic progress and individual classroom behavior.

Breaks: Students are given a 10-minute break every hour. However, short 5-minute breaks can be requested as needed to regain focus.

Modified Assignments: We adjust the complexity, length, or format of assignments to better suit the student's needs and learning style.

Alternate Assessment Formats: We offer different types of assessments (e.g., oral presentations, projects) to accommodate diverse learning styles.

Assistive Technology: We provide access to assistive devices, such as text-to-speech software, screen readers, or speech-to-text programs, to help students with reading and writing difficulties.

Visual Aids: We utilize visual aids like graphic organizers, charts, and diagrams to help students better understand complex concepts. These are integrated into the curriculum itself and are also provided as needed through individual tutoring sessions.

Simplified Instructions: We break down complex instructions into smaller, more manageable steps and provide them in both written and verbal formats.

Peer Support or Tutoring: We pair students with a peer or tutor to provide additional support and guidance during class or while working on assignments. We use this very sparingly, due to the nature of the reason many of our students enroll with Resolution Ranch Academy; cheating and plagiarism are major concerns.

Note-taking Assistance: Guided and full course notes are provided as needed.

Frequent Progress Monitoring: We regularly monitor and provide feedback on student progress, making necessary adjustments to instructional strategies and accommodations as needed.

Small Group or One-on-One Instruction: We offer individualized instruction to help students better understand concepts and address specific learning needs. Small group instruction is rare considering students work at their own pace and are enrolled in individualized instruction.

Test-taking Accommodations: We allow for tests to be taken in a quiet, distraction-free environment, with extended time, and/or with the support of assistive technology. We try to maintain this environment throughout the school day.

Communication with Therapists and Support Staff: We coordinate with the student's therapist and other support staff to create a holistic plan for addressing the student's unique needs.

Please note that accommodations are tailored to the individual needs of each student and should be based on their specific 504 Plan, IEP, or educational psychological records. We collaborate with the student, their family, and other support staff to ensure that the accommodations provided are effective and appropriate for the student's needs.

An explanation of Course Scheduling and Semesters

The Resolution Ranch Academy academic year begins on August 1st and ends on July 31st. Resolution Ranch Academy operates year-round with no extended breaks during or between semesters. Resolution Ranch Academy recognizes the following semesters:

- **Fall:** August 1st through December 31st
- **Spring:** January 2nd through May 30th
- **Summer:** June 1st through July 31st

Students take one-semester length course at a time. Each course must be completed within 90 hours, or roughly one month. Resolution Ranch Academy adopted this practice to each schedule for students entering and leaving our program. There are occasions that a student may start a course in one semester and complete it in the following semester. In those cases, the course will be listed under the semester it was completed on the Resolution Ranch Academy transcript.

Mathematics

Math Course Sequences

Resolution Ranch Academy has a wide range of math courses to offer to students. Each student's goal is to reach college readiness, and the plans charted below will facilitate that goal. Sometimes it can be confusing which math course is appropriate to take next. The following charts offer some assistance in making these choices. Descriptions of the courses with the associated prerequisites are explained in the Description of Course Offerings section. If the student is not successful in one of the math courses, then the Approaching Level chart will be helpful. All students are expected to complete at least four math years, including Algebra II for most students. Although not recommended, Math Models may be taken after Algebra II with the Minimal or Recommended graduation plans Foundation Plan. The Director of Education will help to assess the most appropriate path.

Approaching Level Math Course Sequences						
9 th Grade	Algebra I AND Strategic Learning (If pass Algebra I, then refer to the On-Level chart.)					
10 th Grade	If not pass Algebra I: Geometry and Math Models or Geometry and Algebraic Reasoning					
11 th Grade	Algebraic Reasoning with optional double-up with Algebra II					
12 th Grade	Not yet TSI ready: College Ready Math		Algebra II	Statistics	If completed Algebra II: Precalculus	
On Level Math Course Sequences						
9 th Grade	Algebra I			Geometry (Completed Algebra I)		
10 th Grade	Geometry (Completed Algebra I)(Optional Double-up with Algebra II)			Algebra II		
11 th Grade	Algebra II			Precalculus		
12 th Grade	Precalculus	College Ready Math (if not TSI ready)	Statistics	Statistics	AQR	Calculus
Above Level Math Course Sequences (Note: Resolution Ranch Academy does not directly teach the following course. They must be outsourced through correspondence or Edmentum EdOptions Academy)						
8 th or 9 th Grade	Advanced Geometry (Passed Algebra I with a 90+ average for the midterms and final, with a 90+ average overall)					
9 th or 10 th Grade	Advanced Algebra II					
10 th or 11 th Grade	Advanced Precalculus					
11 th or 12 th Grade	(AP Statistics and AP Calculus A/B) or (AP Calculus A/B and AP Calculus BC					
12 th Grade	AP Statistics and AP Calculus BC or Multi-Variable Calculus					

Mathematics Courses

Accelerate to Algebra 1

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code.

CREDIT: .5

DESCRIPTION:

Accelerate to Algebra I is a short course designed to prepare you for success in Algebra I. It focuses on reviewing the essential skills and mathematical concepts that serve as the foundation for your upcoming learning. You will apply your understanding of algebraic techniques for representing relationships and use these relationships to solve problems. You will also explore how statistics and probability can be used to draw conclusions and make predictions.

PREREQUISITE: Math 8

Accelerate to Algebra 2

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Accelerate to Algebra II is a short course designed to prepare you for success in Algebra II. It focuses on reviewing the essential skills and mathematical concepts that serve as the foundation for your upcoming learning. You will apply your understanding of algebraic techniques for representing relationships and use these relationships to solve problems. You will also explore how statistics and probability can be used to draw conclusions and make predictions.

PREREQUISITE: Algebra 1

Accelerate to Geometry

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Accelerate to Geometry is a short course designed to prepare you for success in Geometry. It focuses on reviewing the essential skills and mathematical concepts that serve as the foundation for your upcoming learning. You will apply your understanding of algebraic techniques to rewrite and solve expressions and equations. You will also explore simple probability and revisit fundamental geometric relationships.

PREREQUISITE: Algebra 1

Algebra I A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03100500

CREDIT: 1

DESCRIPTION:

Algebra I, Semester A, is a single-semester course designed to build, develop, and periodically assess your subject-matter knowledge while strengthening your mathematical skills. Linear relationships are the main focus of this course. You will graph, create, and solve linear equations and apply function notation to describe linear relationships. You will also study linear transformations and represent linear data using scatter plots and mathematical models. You will write and solve systems of linear equations and inequalities. At the end of this course, you will represent, compare, and analyze datasets in various contexts.

Algebra I, Semester B, is a single-semester course designed to build, develop, and periodically assess your subject-matter knowledge while strengthening your mathematical skills. The major topics of this semester are quadratic and exponential relationships. You will learn to perform operations on polynomials and factor them. You will examine quadratic relationships in detail by writing and graphing quadratic equations. You will also model real-world situations with quadratic functions and solve quadratic equations using a variety of methods. You will investigate exponential relationships and apply exponential models to describe and make predictions about real-world situations. You will solve linear-quadratic and linear-exponential functions. At the end of the semester, you will compare different function types graphically and algebraically.

Algebra II A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03100600

CREDIT: 1

DESCRIPTION:

Algebra II, Semester A, is a single-semester course designed to cultivate and periodically assess your subject-matter knowledge while strengthening your mathematical skills. You will begin building a solid foundation for the course by examining how expressions and functions can model relationships. The course has a concentrated focus on absolute value, quadratic, and polynomial functions, so you will expand your arithmetic skills to include these types of expressions and equations. You will analyze these relationships' key features with tables, graphs, and equations in function form. You will also perform operations on matrices and solve systems of linear equations and inequalities using multiple methods. With consistent application of these functions throughout the course, you will understand how they can model relationships and solve real-world problems, often utilizing technology.

Algebra II, Semester B, is a single-semester course designed to cultivate and periodically assess your subject-matter knowledge while strengthening your mathematical skills. You will begin by studying the key features and applications of radical functions. You will then learn about transformations and inverses of functions and use model data sets to solve problems. This course includes lessons on exponential and logarithmic equations and functions, relationships between these functions, and ways to use these function types to model real-world situations. You will also perform operations on rational expressions and use them to solve problems and graph and interpret rational functions.

PREREQUISITE: Algebra I

Consumer Mathematics

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

In this course, you will learn practical applications of math. You will learn how to plan a budget, manage bank accounts, and figure the cost of a good or service. You will also learn about taxes, payroll deductions, and how to invest and borrow money. This course will help you make informed decisions about buying or renting a home or car and teach you how to protect your purchases and investments with insurance. Finally, you will study economics or the science of creating, distributing, and consuming goods and services. You'll see how economics affects you as an individual and how it affects the country.

Financial Mathematics A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13018000

CREDIT: 1

DESCRIPTION:

Financial Mathematics, Semester A, is a single-semester course designed to introduce you to financial algebra basics. This course includes lessons that focus on planning for expenses and developing financial goals. You'll learn to use algebraic expressions that model growth that's due to interest. You'll also describe investments in terms of their cost, risks, and returns.

Financial Mathematics, Semester B, is a single-semester course designed to provide insight into some advanced financial algebra concepts. In this course, you'll see how businesses achieve profits through proper financial planning. You'll examine the benefits and consequences of using credit cards and taking out loans. You'll also describe the procedures for filing taxes and identify taxes levied on various investments.

Geometry A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03100705

CREDIT: 1

DESCRIPTION:

Geometry is a mathematics branch that uses logic and formal thinking to establish mathematical relationships between points, lines, surfaces, and solids. In Geometry A, you will explore rigid and non-rigid transformations of figures in the coordinate plane and use them to establish congruence and similarity of triangles and other shapes. You will prove theorems about lines, angles, triangles, and parallelograms and build geometric constructions using basic tools and modern technology. Finally, you will apply your knowledge of triangles as you investigate the mathematics of trigonometry.

In Geometry B, you will review the volume formulas for some common solid figures as you extend your knowledge of two-dimensional shapes to three-dimensional shapes. You will also transition from primarily Euclidean geometry to analytical geometry; a geometry segment focused on numerical measurements and coordinate algebra. You will use analytical geometry and observations to investigate the properties of circles and constructions related to circles. Finally, you will study independent and conditional probability and use probability models to represent everyday life situations.

PREREQUISITE: Algebra 1

Precalculus A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03101100

CREDIT: 1

DESCRIPTION:

Studying higher algebra and trigonometry leads to a better understanding of calculus. In Precalculus A, you will explore and build your knowledge of inverse, trigonometric, and logarithmic functions, trigonometric identities; complex numbers; and vectors. You will also apply this knowledge to real-world situations.

Precalculus encompasses the rudiments of calculus, analytical geometry, and trigonometry. In Precalculus B, you will explore and build your knowledge of conic sections, matrices, sequences, induction, and probability and apply this knowledge to real-world situations. You will also study basic calculus concepts, such as the limits of a function and area under the curve.

PREREQUISITE: Geometry and Algebra II

Statistics

GRADE: 11-12

EQUIVALENT PEIMS #: 03102530

CREDIT: 1

DESCRIPTION:

Probability and Statistics is a mathematics course that teaches two related but distinguishable disciplines. Probability is the study of the likelihood that an event will occur. For example, what is the probability of winning a writing contest if there are 3,000 entries? What are the chances you will land that lead role in the school play if 30 students audition? In statistics, you will practice the science of collecting and analyzing numerical data to make decisions. The study of statistics upholds that of probability. You've likely worked with both disciplines to varying degrees during your math education.

In this course, you will represent and interpret data using dot plots, histograms, box plots, two-way frequency tables, and scatter plots. You will study normal distributions and distinguish between correlation and causation. You will also determine the conditional probability of two events or whether the events are independent. Using counting techniques and probability rules, you will calculate probabilities and use the results to make educated and fair decisions. You will evaluate several data collection techniques and statistical models, including simulations. The course closes with information on how you can use probability models to represent situations arising in everyday life that involve both payoff and risk.

PREREQUISITE: Algebra 1

Mathematical Models with Applications A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03102400

CREDIT: 1

DESCRIPTION:

In Mathematical Models with Applications, Semester A, you will learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. You will use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Along the way, you will select from a variety of tools, including manipulatives, technology, and data collection devices. This course takes an integrated approach to mathematics as you further your skills in the disciplines of algebra, geometry, trigonometry, and probability, and statistics.

In Mathematical Models with Applications, Semester B, you will learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. You will use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Along the way, you will select from a variety of tools, including manipulatives, technology, and data-collection devices. This course takes an integrated approach to mathematics as you further your skills in the disciplines of algebra, geometry, trigonometry, and probability, and statistics.

PREREQUISITE: Algebra 1

English Language Arts

Accelerate to English I

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Accelerate to English I is a short course designed to prepare you for success in English I. It focuses on developing the reading and writing skills that will serve as the foundation for your upcoming learning. You will practice active reading strategies to analyze how authors use literary devices, structure, and language in their writing. You will also practice close reading to interpret texts and provide support for written analysis.

PREREQUISITE: English 8

Accelerate to English II

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Accelerate to English II is a short course designed to prepare you for success in English II. It focuses on the reading and writing skills that will serve as the foundation for your upcoming learning. You will practice active reading strategies to analyze how authors use literary devices, persuasive techniques, structure, and language in their writing. You will also practice close reading to interpret texts and provide support for written analysis.

PREREQUISITE: English I

Accelerate to English III

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Accelerate to English III is a short course designed to prepare you for success in English III. It focuses on developing the reading and writing skills that will serve as the foundation for your upcoming learning. You will read literary and informational texts to analyze how authors use various structures, elements, and techniques to create effects.

PREREQUISITE: English II

Accelerate to English IV

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Accelerate to English IV is a short course designed to prepare you for success in English IV. It focuses on developing the reading and writing skills that will serve as the foundation for your upcoming learning. You will practice active reading strategies to analyze how authors use literary devices, structure, and language in their writing. You will also compose brief analyses to demonstrate your understanding of these texts' historical and cultural perspectives.

PREREQUISITE: English III

English I A/B

GRADE: 9

EQUIVALENT PEIMS #: 03220100

CREDIT: 1

DESCRIPTION:

English I, Semester A, is a single-semester course designed to cultivate reading comprehension and writing skills. In this course, you will read and analyze literature in several different genres. Also, you will explore many types of writing, such as creative, descriptive, expository, narrative, and persuasive. Dramatic conventions and the structural elements of poetry are also a focus of this course. You will sharpen your writing skills to evaluate literary works and informational texts by examining formal techniques, form, and writing structures.

English I, Semester B, is a single-semester course designed to cultivate your presentation, research, and analytical writing skills. This course will read and analyze literature from several different genres and argumentative texts and informational texts. As you read, you will examine the author's purpose, audience, and point of view. This course will build your research skills by evaluating sources for credibility and bias, developing a research plan, and writing a research paper. An essential aspect of the research process will be synthesizing information and correctly citing research sources. This course will prepare you to give a presentation based on your research. Throughout this course, you will sharpen your reading and writing skills.

English I, Semester B, is a single-semester course designed to cultivate your presentation, research, and analytical writing skills. This course will read and analyze literature from several different genres and argumentative texts and informational texts. As you read, you will examine the author's purpose, audience, and point of view. This course will build your research skills by evaluating sources for credibility and bias, developing a research plan, and writing a research paper.

PREREQUISITE: English 8

English II A/B

GRADE: 10

EQUIVALENT PEIMS #: 03220200

CREDIT: 1

DESCRIPTION:

English II, Semester A, is a single-semester course designed to familiarize you with the elements of fiction, nonfiction, and stagecraft. This course consists of three units. The first unit will introduce you to literary devices used in short stories, such as subject, theme, mood, plot, and narration. In the second unit, you'll study the features of informational texts. In the last unit, you will read classic and modern dramatic texts to examine their themes and characteristics.

English II, Semester B, is a single-semester course designed to help strengthen your reading and comprehension skills. In this course, you will read and analyze literature in different genres. You'll be introduced to the characteristics and features of various types of fictional works, such as realistic fiction, historical fiction, and science fiction. Additionally, you will read nonfictional works to study the elements of nonfiction. The final unit in this course focuses on poetry.

PREREQUISITE: English I

English III A/B

GRADE: 11

EQUIVALENT PEIMS #: 03220300

CREDIT: 1

DESCRIPTION:

English III, Semester A, is a single-semester course designed to help you understand English literature's gradual development in the United States in the eighteenth and nineteenth centuries. In this course, you'll study various techniques to improve your reading comprehension and writing skills. You will explore literature genres that include creative, descriptive, expository, narrative, and persuasive writing. The course focuses on how American literature has changed throughout its history regarding literary techniques, form, and theme.

English III, Semester B, is a single-semester course designed to introduce you to American literature of the twentieth and twenty-first centuries. You'll exercise your reading comprehension skills as you read various literary works from the modern era and evaluate their literary techniques, form, and themes. Your writing tasks will include creative, descriptive, and narrative writing.

PREREQUISITE: English II

English IV A/B

GRADE: 12

EQUIVALENT PEIMS #: 03220400

CREDIT: 1

DESCRIPTION:

English IV, Semester A, is a single-semester course in which you'll explore the relationship between British history and literature from the Anglo-Saxon period through the neoclassical era. Your studies will include the gradual development of the English language and the works of Shakespeare. You will read and analyze various literary works from this period, using relevant cultural and political history. The instruction covers many writing types, including creative, descriptive, expository, narrative, and persuasive. You'll also study the impact of historical events on literature.

In English IV, Semester B, you'll explore the relationship between British history and literature from the romantic period to the modern era. You'll read and analyze various literary works in the context of relevant cultural and political history, focusing on literary and cultural traits of modernism and postmodernism. You'll also engage in activities in which you create a presentation from research, explore the effects of multimedia, and write a procedural text.

PREREQUISITE: English III

Social Studies

Civics

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Civics is a course that offers alignment to a variety of state and national standards sets for Civics and Government and alignment to the USCIS Naturalization Test. The course includes various unit and lesson activities that examine the state's history, geography, culture, and economy that encourage research and reflection. In these activities, you will examine founding documents and landmark Supreme Court cases in American political history, analyze changes in federal and executive power over time, explore the political election process and data related to recent voting trends, research and propose a public policy plan, as well as compare and contrast the functions of the national government with state and local governments. Also, the course includes an entire unit with content to prepare for the USCIS Naturalization Test. You can also access a worksheet with all 100 items from the USCIS test. Throughout the course, places where you can find or research answers to these questions are highlighted.

Contemporary World A/B

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: 1

DESCRIPTION:

The Contemporary World, Semester A, is a single-semester course designed to strengthen your knowledge about the modern world. In the first unit, you will explore how geography can help you better understand the world and its people. In the second unit, you will learn about the influence of culture on the world. In the third unit, you will discover the relationship between art and society and study migration and population distribution. In the last unit, you will learn about the effect of physical processes on the environment and how people have adapted to and modified physical environments.

The Contemporary World, Semester B, is a single-semester course designed to strengthen your understanding of government in the modern world. In the first unit, you will study the role of government and citizens' responsibilities in contemporary societies. In the second unit, you will learn about democracy in the United States, and you will look at the structure of the Constitution. In the third unit, you will explore the US legal system's functions and understand the rights and responsibilities of US citizens. Toward the end of this course, you will learn about the factors affecting global trade development and examine the US economy's structure and function.

Economics

GRADE: 12

EQUIVALENT PEIMS #: 03310300

CREDIT: .5

DESCRIPTION:

Economics is a social science that examines how goods and services are created, consumed, and exchanged. This course covers fundamental economic problems such as scarcity, choice, and effective use of resources. It also covers topics on a larger scale, such as market structures and international trade. It mainly focuses on the US economy and analyzes the government's role and the Federal Reserve System.

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U.S. Government

GRADE: 12

EQUIVALENT PEIMS #: 03330100

CREDIT: .5

DESCRIPTION:

US Government is studying the founding principles of democracy in the United States, the structures and details of how the government functions, and the individual citizen's role in participating in that democracy. In US Government, you will learn about the principles and events that led to the founding of the United States in the eighteenth century; examine how the operations of the US government are spread among three branches of government and distributed between the national, state, and federal levels of government; explore the role of the individual citizen in the operations of the government; and, finally, apply these concepts to understanding the concrete areas of foreign, domestic, and economic policy. You'll explore timelines to gain an understanding of how events link to each other and to the structures of government that exist today, and you'll analyze historical documents for a firsthand sense of how government structures were designed. You'll also gather evidence from relevant documents and historical texts to develop credible explanations of how and why the government exists as it does. You'll then use that evidence to express viewpoints on government operations by writing essays and creating presentations about topics of relevance to modern US citizens.

U.S. History A/B

GRADE: 10-12

EQUIVALENT PEIMS #: 03340100

CREDIT: 1

DESCRIPTION:

US History is the study of the events, people, and culture of the United States over time. In US History A, you will learn about the process of historical inquiry, review the events and principles behind the founding of the United States, and then apply historical inquiry to analyze societal issues, trends, and events from the Civil War through the Great Depression. You'll explore timelines to gain an understanding of how events link to each other, and you'll analyze historical documents for a firsthand sense of how events unfolded. You'll also gather evidence from relevant documents and historical texts to develop credible explanations of US history events. You'll then use that evidence to evaluate change and continuity over time by writing essays and creating presentations about broad periods of historical development.

US History is the study of the events, people, and culture of the United States over time. In US History B, you will apply historical inquiry to analyze societal issues, trends, and events of US history from World War II to the present, including the Cold War, Civil Rights, and other social movements, the Vietnam War, modern presidencies, and responses to global terrorism. You'll explore timelines to gain an understanding of how events link to each other, and you'll analyze historical documents for a firsthand sense of how events unfolded.

World Geography A/B

GRADE: 9-10

EQUIVALENT PEIMS #: 03320100

CREDIT: 1

DESCRIPTION:

Geography is the study of where things are in the world. It is important to know why people settled where they did: sometimes this is for weather-related reasons, and sometimes it's because of bountiful natural resources nearby. In this course, you will learn about these special features which drive economic development and form the locales where people settle.

World History A/B

GRADE: 9-10

EQUIVALENT PEIMS #: 03340400

CREDIT: 1

DESCRIPTION:

English IV, Semester A, is a single-semester course in which you'll explore the relationship between British history and literature from the Anglo-Saxon period through the neoclassical era. Your studies will include the gradual development of the English language and the works of Shakespeare. You will read and analyze various literary works from this period, using relevant cultural and political history. The instruction covers many writing types, including creative, descriptive, expository, narrative, and persuasive. You'll also study the impact of historical events on literature.

In English IV, Semester B, you'll explore the relationship between British history and literature from the romantic period to the modern era. You'll read and analyze various literary works in the context of relevant cultural and political history, focusing on literary and cultural traits of modernism and postmodernism. You'll also engage in activities in which you create a presentation from research, explore the effects of multimedia, and write a procedural text.

Science

Biology A/B □

GRADE: 9-12

EQUIVALENT PEIMS #: 03010200

CREDIT: 1

DESCRIPTION:

Biology with Virtual Labs, Semester A, is a single-semester course designed to strengthen your basic biology knowledge. The first unit provides an introduction to biology and biochemistry. It focuses on the roles of and differences between plant and animal cells. In the second unit, you'll learn about the functions of different organ systems. The third unit covers cell division and DNA and chromosomes' role in passing traits from parents to offspring. You will also have the option to learn more about biology through augmented reality and the use of the Edmentum AR Biology app on your mobile device.

Biology with Virtual Labs, Semester B, is a single-semester course designed to strengthen your knowledge of biology concepts. The first unit focuses on the classification, characteristics, and biological processes of living organisms. In the second unit, you'll study evolutionary mechanisms and the impact of environmental factors on species over time. The third unit focuses on the conservation of energy as it relates to living things and different ecosystems. In the last unit, you'll explore how different ecosystems are interdependent. You will also have the option to learn more about biology through augmented reality and the use of the Edmentum AR Biology app on your mobile device.

Chemistry A/B □

GRADE: 10-12

EQUIVALENT PEIMS #: 03040000

CREDIT: 1

DESCRIPTION:

Chemistry is the study of matter and how it changes. This course looks at matter's composition, properties, and transformations. In this semester, you'll explore the structure and properties of matter. You'll analyze and construct the periodic table of elements. You'll compare elements based on their atomic structures and relative positions in the periodic table. You will also discuss the chemical bonding taking place in ionic and covalent compounds and metals. Finally, you'll predict the outcome of chemical reactions based on the reactants involved.

Chemistry is the study of matter and how it changes. The course looks at matter's composition, properties, and transformations. In this semester, you will calculate the theoretical quantities of substances involved in a chemical reaction through the study of stoichiometry. You'll analyze chemical reactions that involve aqueous solutions, acids and bases, and gases. You'll see how gases respond to changes in pressure, volume, temperature, and quantity through the ideal gas law. You'll also calculate changes in temperature caused by physical and chemical processes and analyze reactions in terms of bond energies. Finally, you will understand how atoms are changed by the unique processes of radioactive decay, nuclear fusion, and nuclear fission.

PREREQUISITE: 1 unit of high school science and Algebra 1

High School Earth and Space Science A/B □

GRADE: 11-12

EQUIVALENT PEIMS #: 03060200

CREDIT: 1

DESCRIPTION:

Earth and space science study our planet's structure and Earth's role in the solar system and universe. This science branch relies on observations, historical data, and physical evidence to describe the natural processes around us and distant space. Semester A begins with discussing the methods and tools that scientists use to study Earth and space science, including the scientific method, modeling, and mathematics. You'll look at theories for how the planets, solar system, and universe formed and explain the Sun, Earth, and Moon interactions. You'll also learn about the emergence of Earth's materials, atmosphere, and first lifeforms, as well as the dating methods that help us piece together Earth's unique history.

Earth and space science study our planet's structure and Earth's role in the solar system and universe. This science branch relies on observations, historical data, and physical evidence to describe the natural processes around us and distant space. You'll begin Semester B by comparing the composition of rocks and minerals and analyzing the processes involved in the rock cycle. You'll explore the tectonic mechanisms that lead to some of Earth's most prominent geological features. Next, you'll study essential interactions between the hydrosphere and atmosphere and their role in weathering and erosion. You'll also differentiate between weather and climate and make evidence-based predictions about both using data and modeling. The last unit in this course highlights the adverse effects that humans can have on Earth's natural cycles and the effective measures we can take to protect our planet.

PREREQUISITE: 3 units of science, one of which may be taken concurrently, and Algebra 1

Integrated Physics & Chemistry A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03060201

CREDIT: 1

DESCRIPTION:

In Integrated Physics and Chemistry A, you will first learn about the "basics" of physics since physics is the foundation of chemistry. In this course, you will learn how to describe and analyze motion, how forces interact with matter, and how to describe further these interactions with the aid of energy and momentum concepts. You will also learn about waves, electricity, and magnetism.

In Integrated Physics and Chemistry B, you will begin your study of chemistry. This includes the atomic and molecular structures that result in different chemical properties and the concepts and tools that will enable you to predict chemical properties and chemical reactions. You will learn about key types of chemical relationships and reactions, including solutions and acid-base reactions. Finally, you will extend your knowledge into the areas of thermal and nuclear energy.

Physics A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03050000

CREDIT: 1

DESCRIPTION:

In Physics A, you will learn about the “basics” of physics: how to describe and analyze motion, how forces interact with matter, and how to describe further these interactions with the aid of the concepts of energy and momentum. Finally, you’ll explore one more specialized topic, thermodynamics, the physics of heat.

In Physics B, you will use your physical understanding of motion, forces, and energy and apply that knowledge to some important, specialized topics in physics: the behavior of waves, applications of wave theory to light and optics, the interaction of electrical and magnetic forces, and the special “non-Newtonian” properties of energy and matter described by quantum theory.

PREREQUISITE: Algebra I

Career & Technical Education Electives

Accounting 1

GRADE: 10-12

EQUIVALENT PEIMS #: 13016600

CREDIT: 1

DESCRIPTION:

Accounting Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the student to the fundamentals of bookkeeping and financial statements. It also covers career opportunities and key government regulations in the accounting field.

Accounting Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the student to the accounting functions of different businesses and the specialized accounting tasks. It also covers and the essentials of interpersonal and workplace skills required as a professional in this field.

PREREQUISITE: Principles of Business, Marketing, and Finance

Advertising

GRADE: 10-12

EQUIVALENT PEIMS #: 13034200

CREDIT: .5

DESCRIPTION:

Advertising is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to learn about the scope and importance of marketing, advertising, and sales in a business. The course is based on Career Technical Education (CTE) standards designed to help students understand basic marketing concepts and learn about the advertising function and selling process.

PREREQUISITE: Principles of Business, Marketing, and Finance

Audio Video Production 1 A/B

GRADE: 10-12

EQUIVALENT PEIMS #: 13008500

CREDIT: 1

DESCRIPTION:

Audio Video Production 1, Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to learn audio-video production basics. The course will help the students understand the industry, focusing on pre-production, production, and post-production audio and video activities. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the audio-video production industry.

Audio Video Production 1, Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to learn audio-video production basics. The course will help the students understand the industry, focusing on preproduction, production, and postproduction audio and video activities. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the audio-video production industry.

PREREQUISITE: Principles of Arts, A/V Technology and Communications

Business Information Management 1 A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13011400

CREDIT: 1

DESCRIPTION:

Business Information Management, Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the students to career opportunities and technology needs in business organizations. They will learn about hardware and software requirements, file management techniques, and maintenance procedures used in business organizations. They will also learn about the role and the use of the Internet and its business communication applications. Additionally, they will learn to use word processing software and spreadsheets for exchanging and analyzing information in business organizations.

Business Information Management, Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce presentation programs to students. Students will learn to create slideshows and deliver multimedia presentations. They will learn about the role of databases to store data and the options to generate reports in business organizations. Students will learn about the principles, tools, and languages required for webpage development. Additionally, they will learn about the key aspects of business management and the leadership qualities necessary to lead a successful team and manage conflicts within the team.

Child Development

GRADE: 11-12

EQUIVALENT PEIMS #: 13024700

CREDIT: .5

DESCRIPTION:

Child Development is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge they will need to succeed in careers throughout their lives. Child Development is a one-semester course that describes various aspects of pregnancy, postnatal care, child development, parenting, and career opportunities in childcare.

Commercial Photography A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13009100

CREDIT: 1

DESCRIPTION:

Commercial Photography A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce students to the history and types of photography and careers in photography, digital cameras, lenses, support equipment, and various photography techniques and aspects. They will also learn about copyright laws and storing and printing images.

Commercial Photography B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce students to camera exposure, retouching, and restoring photographs. The course covers portrait, architectural, and advertising photography. It also covers darkroom equipment and development, and portfolio creation.

PREREQUISITE:

Computer Programming I A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13027600

CREDIT: 1

DESCRIPTION:

Computer Programming I A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce students to the concepts and techniques associated with computer programming. Students learn to use data types and functions in a program. They describe the types of programming paradigms. They learn to create program structures. They learn to create web pages in HTML. Further, they learn to create a JavaScript program.

Computer Programming I B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce students to the various phases of the software development life cycle (SDLC). Students describe software development methodologies. They represent various types of project plans, various types of testing, and system implementation. They learn to create a Unified Modeling Language (UML) design. They also identify various security threats and risks to computer systems and the methods to mitigate them.

Culinary Arts A/B

GRADE: 10-12

EQUIVALENT PEIMS #: 13022600

CREDIT: 1

DESCRIPTION:

Introduction to Culinary Arts, Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge necessary in the culinary industry. The course is based on Career Technical Education (CTE) standards designed to help students understand various manufacturing processes, concepts, and systems.

Introduction to Culinary Arts, Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge necessary in the culinary industry. The course is based on Career Technical Education (CTE) standards designed to help students understand various manufacturing processes, concepts, and systems.

PREREQUISITE: Principles of Hospitality and Tourism

Digital and Interactive Media A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13027800

CREDIT: 1

DESCRIPTION:

Digital and Interactive Media Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce students to careers, training, and emerging technologies in digital media. This course familiarizes you with the concepts involved in digital media, such as graphic design, digital photography, principles of design, and digital printing. This course also covers copyright laws and fair use involved in digital media.

Digital and Interactive Media Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the student to digital communication systems. This course familiarizes you with audio and video technologies. This course also covers digital media design, multimedia, and animation. Also, this course teaches you how to create a web page, publish digital products, and create a digital portfolio.

Engineering Design and Presentation A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13036500

CREDIT: 1

DESCRIPTION:

Engineering Design and Presentation Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to understand drafting and design concepts. The course is based on Career Technical Education (CTE) standards designed to help students use different types of drafting tools, apply drafting conventions, learn sketching and drawing techniques, explore various views and projections, and familiarize themselves with basic computer-aided design and drafting (CADD) operations.

Engineering Design and Presentation B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to understand drafting and design concepts. The course is based on Career Technical Education (CTE) standards designed to help students design and develop a prototype, analyze different types of drawings and views, perform advanced computer-aided design and drafting (CADD) operations, and identify key professional and personal skills that help have a successful career in the field of drafting and design.

Entrepreneurship A/B

GRADE: 12

EQUIVALENT PEIMS #: 13034400

CREDIT: 1

DESCRIPTION:

Entrepreneurship, Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to learn about the components of a business plan, ideation, and innovation in products and pricing, market research process, and various management functions of operations management. The course is based on Career Technical Education (CTE) standards designed to help students understand the roles and attributes, marketing and components, selling process, and operations management.

Entrepreneurship, Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to understand the concept of accounting and its role in business, different firm ownership structures, the importance of business ethics, and the scope and importance of quality management. The course is based on Career Technical Education (CTE) standards designed to help students understand the different types of capital that a business needs at different stages, the nature of legally binding contracts, various functions of the human resources division of a company, and the types of risks that entrepreneurs have to face.

PREREQUISITE: Any two Business, Finance or Marketing classes

Graphic Design and Illustration A/B

GRADE: 10-12

EQUIVALENT PEIMS #: 13008800

CREDIT: 1

DESCRIPTION:

Graphic Design and Illustration, Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students to learn graphic design concepts and techniques at the high school level. The course will help the students understand the industry, focusing on topics such as the history of graphic design, types of digital images, graphic design tools, storing and manipulating images, design elements and principles, copyright laws, and printing images. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the graphic design industry.

Graphic Design and Illustration, Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to learn advanced graphic design concepts and techniques. The course will help the students understand the industry, focusing on advanced manipulation of images, retouching photos, special effects, logos and posters, multimedia, digital photography, art criticism, digital publishing, and graphic design portfolio. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the graphic design industry.

PREREQUISITE: Digital and Interactive Media

Health Science Theory A/B

GRADE: 11-12

EQUIVALENT PEIMS #: 13020400

CREDIT: 1

DESCRIPTION:

Health Science Theory A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high-school level to learn health science basics. The course will help the students understand the academic qualifications, personal skills, training, and healthcare tools required to work in the healthcare industry. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the healthcare industry.

Plato Course Health Science Theory B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high-school level to learn health science basics. The course will help the students understand the academic qualifications, personal skills, training, and healthcare tools required to work in the healthcare industry. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the healthcare industry.

PREREQUISITE: Principles of Health Science, Medical Terminology, and Biology

Medical Terminology

GRADE: 10-12

EQUIVALENT PEIMS #: 13020300

CREDIT: .5

DESCRIPTION:

Applied Medical Terminology A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high-school level to identify the components of medical terms and familiarize themselves with the medical terminology used in health care. The course is based on Career Technical Education (CTE) standards designed to help students describe the human body systems' structure and functions. It will help students identify and understand the medical terminology used for various diseases and medical procedures related to each body system.

PREREQUISITE: Principles of Health Science or Principles of Biomedical Sciences

Money Matters

GRADE: 10-12

EQUIVALENT PEIMS #: 13016200

CREDIT: .1

DESCRIPTION:

Money Matters is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge they will need to succeed in careers throughout their lives. The course is based on Career Technical Education (CTE) standards designed to help students prepare for entry into a wide range of careers and postsecondary education. The 16 career clusters identified by NASDCTEc (National Association of State Directors of Career Technical Education Consortium) are Agriculture, Food, and Natural Resources Architecture and Construction Arts, A/V Technology, and Communications Business Management and Administration Education and Training Finance Government and Public Administration Health Science Hospitality and Tourism Human Services Information Technology Law, Public Safety, Corrections, and Security Manufacturing Marketing Science, Technology, Engineering, and Mathematics Transportation, Distribution, and Logistics. Money Matters falls under the Finance cluster. It is designed to enable students at the high school level to develop financial skills that they can use during their careers in business organizations.

PREREQUISITE: Principles of Business, Marketing, and Finance

Principles of Agriculture, Food, and Natural Resources A/B

GRADE: 9-10

EQUIVALENT PEIMS #: 13000200

CREDIT: 1

DESCRIPTION:

Principles of Agriculture, Food, and Natural Resources A/B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to understand the basic concepts of agriscience and sustainability. The course is based on Career Technical Education (CTE) standards designed to help students understand various agriscience concepts and their role in international markets.

Principles of Applied Engineering A/B

GRADE: 10-12

EQUIVALENT PEIMS #: 13037500

CREDIT: 1

DESCRIPTION:

This course is designed to enable all students at the high school level to develop a deep understanding of the engineering objectives identified in the course Pacing Guide. The course is organized into units and lessons.

PREREQUISITE: Introduction to Engineering Design, OR Waiver by the instructor

Principles of Architecture A/B

Principles of Architecture

GRADE: 9-11

PEIMS: #13004210

CREDIT: 1

Principles of Architecture Semester A is a one-semester course that explains the basic concepts of architecture. The course describes the structural elements and covers the materials and equipment used in construction. You will learn to interpret architectural drawings. The course helps you identify various career opportunities related to architecture and construction. The course also covers essential workplace skills and appropriate work habits.

Principles of Architecture, Semester B is a one-semester course that explains the key concepts in designing and environment-friendly construction techniques. You will learn how to use various technological applications to manage a project. The course covers the different types of construction documents and standards applicable in the industry. The course describes essential workplace skills such as diversity awareness and conflict resolution. The course also covers the safety and legal requirements and regulations in architecture and construction.

Principles of Arts, A/V Technology, and Communications A/B

GRADE: 9-10

EQUIVALENT PEIMS #: 13008200

CREDIT: 1

DESCRIPTION:

This course introduces students to all of the basic digital audio/video pre-production, production, and post-production components. Students will create short video projects using state-of-the-art equipment currently used in the professional world.

Principles of Business, Marketing, and Finance A/B

GRADE: 9-10

EQUIVALENT PEIMS #: 13011200

CREDIT: 1

DESCRIPTION:

Students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge.

Principles of Construction

GRADE: 11-12

EQUIVALENT PEIMS #: 13004220

CREDIT: 1

DESCRIPTION:

This course will provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools

Principles of Education and Training A/B

GRADE: 9-10

EQUIVALENT PEIMS #: 13014200

CREDIT: 1

DESCRIPTION:

This course is designed to introduce learners to the various careers available within the education and training careers cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster.

Principles of Government and Public Administration A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13018200

CREDIT: 1

DESCRIPTION:

Principles of Government and Public Administration A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the student to the fundamentals of government and the origins of the American government, different government systems, the US constitution, government branches, public policy, and civil rights and liberties. This course also covers civil engagement and the bill of rights.

Principles of Government and Public Administration B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the student to the career opportunities in government, geographical factors, science and technology in government, and different skills necessary for a job in government or public administration.

Principles of Health Science A/B

GRADE: 9-10

EQUIVALENT PEIMS #: 13020200

CREDIT: 1

DESCRIPTION:

Principles of Health Science –Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge they will need to succeed in careers throughout their lives. Principles of Health Science-Semester A falls under the Health Science cluster. It is designed to enable students to develop health science skills to use in their careers at the high school level. Students describe the careers in healthcare and the various skills needed to be successful in this field. They also explain ethics and safety in the workplace.

Principles of Health Science Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop skills and knowledge they can use in their careers in the near future. The course will help the students understand the industries and career pathways in the Principles of Health Science. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the Principles of Health Science.

Principles of Hospitality and Tourism A/B

GRADE: 9-11

EQUIVALENT PEIMS #: 13022200

CREDIT: 1

DESCRIPTION:

The hospitality and tourism industry encompasses lodging, travel and tourism, recreation, amusements, attractions, resorts, restaurants, and food and beverage services. Additional Fees: \$25.00 lab fee may be charged for consumables.

Principles of Human Services A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13024200

CREDIT: 1

DESCRIPTION:

Principles of Human Services, Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge necessary in the human services industry. It is designed to allow students at the high school level to describe workplace skills and employability skills. Further, students also explain different mental health problems. Finally, they represent the basis of counseling.

Principles of Human Services, Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge necessary in the human services industry. This course is designed to develop basic knowledge and skills in Human Services at the high school level. It equips the students with knowledge of child development and the role of a family in child development. Students also describe various careers and explain customer service skills.

Principles of Information Technology A/B

GRADE: 9-11

EQUIVALENT PEIMS #: 13027200

CREDIT: 1

DESCRIPTION:

This is a basic introduction to all other Information Technology Courses, which develop computer literacy skills to adapt to emerging technologies used in the global marketplace. This is a basic introduction to all other Information Technology Courses.

Principles of Law, Public Safety, Corrections, and Security A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13029200

CREDIT: 1

DESCRIPTION:

This course covers the history and development of criminal law in the United States, court procedures, law enforcement agencies' role and private security in public safety, and firefighters and emergency responders. It also covers the ethical and legal responsibilities and working conditions in law enforcement and security. It also covers communication skills, math skills, work ethics, job acquisition skills, career advancement skills, and other important professional skills and qualities required at the workplace.

Principles of Manufacturing A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13032200

CREDIT: 1

DESCRIPTION:

Principles of Manufacturing Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students to understand manufacturing's basic concepts at the high school level. The course is based on Career Technical Education (CTE) standards designed to help students understand various manufacturing processes, concepts, and systems.

Principles of Manufacturing Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to understand the importance of quality control and maintenance, examine the relationship between manufacturing and marketing, and demonstrate various employability skills. The course is based on Career Technical Education (CTE) standards designed to help students understand various quality and process control systems, examine maintenance procedures and safe material handling methods, analyze how manufacturing and marketing departments function, and demonstrate various professional and personal skills.

Principles of Transportation, Distribution, and Logistics A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13039200

CREDIT: 1

DESCRIPTION:

Principles of Transportation, Distribution, and Logistics Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the student to the career opportunities in government, geographical factors, science and technology in government, and different skills necessary for a job in government or public administration.

Principles of Transportation, Distribution, and Logistics Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to introduce the student to the basic concepts of warehousing and workplace safety. It also familiarizes you with organization management and leadership skills. Also, this course covers the role of technology and future trends in the TDL industry.

Professional Communications

GRADE: 9-12

EQUIVALENT PEIMS #: 13009900

CREDIT: .5

DESCRIPTION:

Professional Communications is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the communication skills they will need to succeed in a profession. The course is based on Career Technical Education (CTE) standards designed to help students learn communication skills.

Sports and Entertainment Marketing

GRADE: 10-12

EQUIVALENT PEIMS #: 13034600

CREDIT: 1

DESCRIPTION:

This course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and sporting events and entertainment, including marketing, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans.

Touch System Data Entry

GRADE: 11-12

EQUIVALENT PEIMS #: 13011300

CREDIT: .5

DESCRIPTION:

Touch Systems Data Entry is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to develop the critical skills and knowledge they will need to succeed in careers throughout their lives. It is designed to enable students at the high school level to develop electronic communication skills that they can use during their careers.

Web Technologies A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 13027900

CREDIT: 1

DESCRIPTION:

Web Technologies Semester A is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to learn website design concepts. The course will help the students develop an understanding of the industry, focusing on web technology careers, emerging trends in web technology, web development tools, client-server processing, HTML, style sheets, website design, and the web development process. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the web design and development industry.

Web Technologies Semester B is a one-semester course organized into units and lessons. The typical audience for this course is students at the high school level. This course is designed to enable all students at the high school level to learn advanced website design concepts. The course will help the students develop an understanding of the industry, focusing on desktop publishing, multimedia, JavaScript, DHTML, XML, website planning, website creation, website launching, web maintenance, and web administration. The course is based on Career Technical Education (CTE) standards designed to help students develop technical knowledge and skills needed for success in the web design and development industry.

3D Modeling

GRADE: 9-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: .5

DESCRIPTION:

Are you interested in a career in technology? Are you curious about working in virtual reality, video game design, marketing, television and motion pictures, or digital imaging? This course in 3D Modeling is a great place to start as it is the foundation for all these career paths. Gain a deeper understanding of graphic design and illustration as you use 3D animation software to create virtual three-dimensional design projects. Hone in on your drawing, photography, and 3D construction techniques and develop the skills needed to navigate within a 3D digital modeling workspace. This course is an excellent introduction to careers in the fast-growing field of technology and design.

Animation I

GRADE: 10-12

EQUIVALENT PEIMS #: 13008300

CREDIT: 1

DESCRIPTION:

Careers in animation span all aspects of motion graphics. In addition to developing technical knowledge and skills, students will be expected to understand the history and techniques of the animation industry.

PREREQUISITE: Digital Media OR Principles of Arts, A/V Technology, and Communications OR Waiver by the instructor

Biotechnology 1 A/B:

GRADE: 10-12

EQUIVALENT PEIMS #: 13036300

CREDIT: 1

DESCRIPTION:

How is technology changing the way we live? Is it possible nature can provide all the answers to some of science's most pressing concerns? In Biotechnology 1a: Introduction, you'll learn the basics of biotechnology and evolutionary theory, explore the various ways we store and preserve food, and discover the process of fermentation and microbiology. This course will also cover the importance of breeding plants and hybridization and how early breeding programs led to the study of genetics and an understanding of genes' function. Finally, you'll delve into early industrial discoveries and explore biotechnology developments during the industrial revolution.

The fusion of biology and technology creates an amazing process and offers humanity a chance to improve our existence while simultaneously creating new challenges significantly. In Biotechnology 1B: Unlocking Nature's Secrets, you'll build on your knowledge from Biotechnology 1A and learn how this field seeks to cure such deadly diseases as cancer and malaria, develop innovative medicine, and effectively feed the world through improved agricultural systems. Learn about some of the challenges biotechnology faces today, such as the growth of antibiotic-resistant bacteria and questions about the safety of commercially produced genetically modified organisms (GMOs). You'll research new biotechnologies and learn how they are changing the world we live in, including the environmental benefits of industrial biotechnology.

PREREQUISITE: Biology I and Algebra I

Coding 1: Introduction to Programming

GRADE: 10-12

EQUIVALENT PEIMS #: 13027600

CREDIT: .5

DESCRIPTION:

Have you ever wondered how your favorite webpages or apps function? Learn about the influence of computers on our daily life, the purpose of programming languages, and how computers function. Experiment with Python to exploring algorithms, syntax, and data structures while putting the software development cycle into practice by starting to plan and develop your app in the Capstone Project. Discover the potential of a career in this field!

PREREQUISITE: Algebra I

Concepts of Engineering and Technology

GRADE: 9-10

EQUIVALENT PEIMS #: 13036200

CREDIT: .5

DESCRIPTION:

Each day, we are surrounded by technology and engineering projects. From our phones to the bridges we drive over, engineering and technology influence many parts of our lives. In Concepts of Engineering and Technology, you will learn more about engineering and technology careers and what skills and knowledge you'll need to succeed in these fields. You'll explore innovative and cutting-edge projects changing the world we live in and examine the design and prototype development process. Concepts of Engineering and Technology will also help you understand the emerging issues in this exciting career field.

Cosmetology 1: Cutting Edge Styles

GRADE: 10-12

EQUIVALENT PEIMS #: 13025200

CREDIT: 2

DESCRIPTION:

This course provides an introduction to the basics of cosmetology. Students will explore career options in cosmetology, learn about the common equipment and technologies used by cosmetologists, and examine the skills and characteristics that make someone a good cosmetologist. Students will also learn more about some of the common techniques used in caring for hair, nails, and skin in salons, spas, and other cosmetology-related businesses.

Cosmetology 2: The Business of Skin and Nail Care

GRADE: 11-12

EQUIVALENT PEIMS #: 13025300

CREDIT: 2

DESCRIPTION:

In Cosmetology 2: The Business of Skin and Nail Care, experience what the day-to-day life of a cosmetologist is like. You will discover that cosmetology is much more than knowing and applying techniques. Additionally, you will explore skincare and facials, learn how to give manicures and pedicures and how to apply artificial nails, and understand different hair removal techniques. Discover the next steps towards launching a rewarding and creative career in cosmetology.

PREREQUISITE: Cosmetology 1

Digital Photography 1: Introduction

GRADE: 10-12

EQUIVALENT PEIMS #: 03501200

CREDIT: 1

DESCRIPTION:

Have you wondered how professional photographers manage to capture that perfect image? Gain a better understanding of photography by exploring camera functions and composition elements while putting theory into practice by taking your spectacular shots! Learn how to display your work for exhibitions and develop skills important for a career as a photographer.

PREREQUISITE: Art I

Digital Photography 2: Creating Images with Impact!

GRADE: 11-12

EQUIVALENT PEIMS #: 03502200

CREDIT: 1

DESCRIPTION:

Building on the prior prerequisite course, further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. Explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring your photos to life. Using this knowledge, build a portfolio of your work to pursue a career in this field!

PREREQUISITE: Digital Photography 1

Digital Photography 3: Discovering Your Creative Potential

GRADE: 12

EQUIVALENT PEIMS #: 03503100

CREDIT: 1

DESCRIPTION:

In today's world, photographs are all around us, including advertisements, on websites, and hung on our walls as art. Many of the images that we see have been created by professional photographers. In this course, we will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history. We will learn how to critique photographs to understand better what creates an eye-catching photograph.

PREREQUISITE: Digital Photography 2

Fashion Design

GRADE: 9-12

EQUIVALENT PEIMS #: 13009300

CREDIT: 1

DESCRIPTION:

Are you a fashion trend follower? Are you drawn to how designers have pulled together fabrics and colors to create memorable pieces? Do you dream of designing your line of clothing or accessories? Learn what it takes to get started in the fashion industry, from the careers available to new technology and trends reshaping the industry every day. Start creating!

Forensics: The Science of Crime

GRADE: 10-12

EQUIVALENT PEIMS #: 13029500

CREDIT: 1

DESCRIPTION:

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to understand better the crimes committed and catch those responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of forensic scientists' techniques and practices during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various crime scenes are analyzed and processed.

COURSE NOTE: This course satisfies a high school science graduation requirement.

PREREQUISITE: Biology and Chemistry

Forestry and Natural Resources

GRADE: 10-12

EQUIVALENT PEIMS #: 13001700

CREDIT: 1

DESCRIPTION:

Forests and other natural resources play an important role in our world, from providing lumber and paper products to providing habitat for birds and animals. In the Introduction to Forestry and Natural Resources course, you'll learn more about forest ecology, management, and conservation. You'll explore topics such as environmental policy, land use, water resources, and wildlife management. Finally, you'll learn more about forestry-related careers and essential issues facing forestry professionals today.

PREREQUISITE: Biology I

Hospitality and Tourism 1: Traveling the Globe

GRADE: 9-11

EQUIVALENT PEIMS #: 13022200

CREDIT: 1

DESCRIPTION:

Where is your dream travel destination? Now imagine working there! You'll be introduced to a thriving industry that caters to travelers' needs through managing hotels, restaurants, cruise ships, resorts, theme parks, and any other kind of hospitality you can imagine. Operating busy tourist locations, creating marketing around leisure and travel, spotting trends, and planning events are just a few of the key aspects you will explore within this exciting field.

Interior Design

GRADE: 10-12

EQUIVALENT PEIMS #: 13004300

CREDIT: 1

DESCRIPTION:

This course will show you how to turn your interests and skills into a career. From professionals who own their own business to those working within a larger company, interior designers do it all—from planning the color scheme to choosing furniture and light fixtures—with the end goal of creating a space where people can live or work comfortably safely, and happily.

You'll learn about color, texture, trends, and styles over time, how homes are built, and “green” options for homes and businesses. Most importantly, you'll learn how to work with clients to meet their unique needs and style requirements. This course will help you identify parts of interior design that are most interesting to you, helping you chart the path for your future.

PREREQUISITE: Principles of Architecture AND Algebra I AND English I, OR Waiver by the instructor

International Business: Global Commerce in the 21st Century

GRADE: 11-12

EQUIVALENT PEIMS #: 13011800

CREDIT: .5

DESCRIPTION:

From geography to culture Global Business is an exciting topic in the business community today. This course is designed to help students develop the appreciation, knowledge, skills, and abilities needed to live and work in a global marketplace. It takes a global view on business, investigating why and how companies go international and are more interconnected.

The course further provides students a conceptual tool to understand how economic, social, cultural, political, and legal factors influence domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations will all be explored in this course. Students will cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are essential in both business activities and the 21st century.

PREREQUISITE: Principles of Business, Marketing, and Finance

Journalism 1: Introduction

GRADE: 9-12

EQUIVALENT PEIMS #: 03230100

CREDIT: 1

DESCRIPTION:

Are you a storyteller at heart? Are you always the first to know what's going on at school or in your town and excited to share the latest breaking news? If so, you are the kind of person every online, print, and broadcast news outlet is searching for, and Journalism 1a: Introduction is the perfect course for you! Explore journalism's history and see how social media and the digital world have changed the way news media operates. Learn the basics of press law, as well as the code of ethics journalists should follow. Finally, understand how to make your writing and speaking more powerful, and discover the importance of pictures and images when telling a story.

Manufacturing: Product Design and Innovation

GRADE: 10-12

EQUIVALENT PEIMS #: 13032200

CREDIT: 1

DESCRIPTION:

Think about the last time you visited your favorite store. Have you ever wondered how the products you buy make it to the store shelves? Whether it's video games, clothing, or sports equipment, the goods we purchase must go through a manufacturing process before they can be marketed and sold. In this course, you'll learn about the types of manufacturing systems and processes used to create the products we buy every day. You'll also be introduced to the various career opportunities in the manufacturing industry, including those for engineers, technicians, and supervisors. As a culminating project, you'll plan your manufacturing process for a new product or invention! If you thought manufacturing was little more than mundane assembly lines, this course will show you just how exciting and fruitful the industry can be.

PREREQUISITE: Algebra I

Marine Science: Secrets of the Blue

GRADE: 10-12

EQUIVALENT PEIMS #: No equivalent PEIMS code

CREDIT: 1

DESCRIPTION:

Have you ever wondered about the secrets of the deep and how the creatures below the ocean's surface live and thrive? It is truly a new frontier of discovery. In Marine Science, you will begin to understand a great deal more about the aquatic cycles, structures, and processes that generate and sustain life in the sea. Through scientific inquiry, research, measurement, and problem solving, you will conduct various scientific procedures that will lead to an increased level of knowledge about Marine Science. You will also have the opportunity to use technology and laboratory instruments in an academic setting. By recognizing the inherent ethics and safety procedures necessary in advanced experiments, you will become progressively more confident in your abilities as a capable marine scientist.

PREREQUISITE: Biology I

National Security

GRADE: 11-12

EQUIVALENT PEIMS #: 13018800

CREDIT: 1

DESCRIPTION:

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

PREREQUISITE: U.S. History

Nutrition and Wellness

GRADE: 10-12

EQUIVALENT PEIMS #: 13024500

CREDIT: .5

DESCRIPTION:

Learn how to fuel your body, maintain your emotional and physical health, and find your way around the grocery store and kitchen in Nutrition and Wellness. This course prepares you for a healthy life and provides you with the essential skills you need to plan and make healthy and delicious meals for you, your family, and your friends. You'll learn how to budget for your meals, shop for groceries, and fit cooking into a busy school schedule, work, and other responsibilities.

Principles of Agriculture, Food and Natural Resources

GRADE: 9-10

EQUIVALENT PEIMS #: 13000200

CREDIT: 1

DESCRIPTION:

This one-semester course is intended to help you familiarize yourself with various aspects of the agriculture, food science, and natural resources industries. This course covers basic concepts in the field of agriculture, food science, and natural resources. It also covers career opportunities in these fields and the academic skills and knowledge required for a successful career in agriscience.

This one-semester course is intended to help you familiarize yourself with various aspects of the agriculture, food science, and natural resources industry. This course covers basic concepts related to animal science, food science and technology, and power and structural technology. It also covers career opportunities in these fields and the academic and workplace skills and knowledge required for a successful career in agriscience.

Public Speaking 1: Introduction

GRADE: 9-12

EQUIVALENT PEIMS #: 03240900

CREDIT: 1

DESCRIPTION:

Does the thought of speaking in front of people makes you break out in hives? Maybe you want tips on how to make that first great impression? In both cases, Public Speaking 1a: Introduction may be just what you need. In this course, you will learn from famous orators like Aristotle and Cicero, understand the influence of rhetoric, and discover how to recognize bias, prejudice, and propaganda. You will also learn how to plan a speech, build an argument, and communicate effectively while collaborating with others. Grab your notes and get ready to conquer public speaking!

Public Speaking 2: Finding Your Voice

GRADE: 9-12

EQUIVALENT PEIMS #: 03241000

CREDIT: 1

DESCRIPTION:

If you've learned the basics and are ready to expand your public speaking skills, Public Speaking 1b: Finding Your Voice is for you. In this course, you'll master public speaking fundamentals through practice and eventually learn to speak confidently in front of large groups. Explore the use of inductive and deductive reasoning, learn how to prepare a speech outline, and discover how to write your speech using correct and emotive language. This course will also help you develop self-efficacy and self-esteem, reduce your fear of public speaking, and teach you how to use body language effectively. You'll also learn how to stand back and critically examine your work to identify areas for improvement.

PREREQUISITE: Public Speaking I

Sports and Entertainment Marketing

GRADE: 10-12

EQUIVALENT PEIMS #: 13034600

CREDIT: .5

DESCRIPTION:

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

Electives

Environmental Science A/B

GRADE: 11-12

EQUIVALENT PEIMS #: 03020000

CREDIT: 1

DESCRIPTION:

In Environmental Science, Semester A, you will learn about the importance of environmental science as an interdisciplinary field. You will describe the abiotic and biotic factors of an ecosystem. You will describe the importance of biodiversity for the survival of organisms and the importance of the food chain and the ecosystem's food web. You will learn about ecological interactions and succession. You will describe the effects of climate change and different types of adaptation. Further, you will describe the steps of the water cycle and how carbon, oxygen, nitrogen, and phosphorous cycle in the global environment

In Environmental Science, Semester B, you will learn about the factors that affect populations. You will describe human population growth and its implications. You will describe the factors that lead to the unequal distribution of natural resources on Earth. You will explain waste management. You will describe different forms of pollution and ways to control pollution. You will describe various nonrenewable and renewable energy sources. Further, you will learn about the benefits of environmental policies and identify factors that affect sustainable development.

PREREQUISITE: 1 unit of high school life science and 1 unit of high school physical science.

Introduction to Astronomy

GRADE: 11-12

EQUIVALENT PEIMS #: 03060100

CREDIT: 1

DESCRIPTION:

In Introduction to Astronomy, you will learn about the history of astronomy from ancient times to modern times. You will identify the movements of the Sun, Moon, planets, and stars across the sky. You will describe the formation of the solar system and the Sun and Moon's role in the solar system. You will describe the causes of seasons on Earth and the reasons for life on Earth. You will learn about stars, galaxies, and the Milky Way. You will explain various theories of cosmology and the advantages and disadvantages of space exploration.

PREREQUISITE: Algebra II and Chemistry

Music Appreciation

GRADE: 10-12

EQUIVALENT PEIMS #: 03155600

CREDIT: 1

DESCRIPTION:

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering various styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

RECOMMENDED PREREQUISITE: Music Theory I

Psychology A/B

GRADE: 11-12

EQUIVALENT PEIMS #: 03350100

CREDIT: .5

DESCRIPTION:

In Psychology, Semester A, you will trace the history of psychology and examine key psychological theories. You will discuss human development and explain how the nervous and endocrine systems affect human development and behavior. You will explain various theories related to language development and acquisition. You will discuss the influence of heredity, environment, society, and culture on human behavior.

In Psychology, Semester B, you will explain the established theories of cognitive, psychosocial, and moral development. You will identify the factors that influence interpersonal relationships, recognize the origins and effects of violence, and describe prevention and treatment options for addictive behavior. You will explain abnormal behavior and describe different types of psychological disorders. You will trace the history of psychological counseling and therapy and describe strategies for problem-solving and coping with stress. You will describe some key statistical concepts used in psychological research and testing and identify career opportunities in psychology.

Sociology

GRADE: 11-12

EQUIVALENT PEIMS #: 03370100

CREDIT: .5

DESCRIPTION:

This one-semester elective course is intended as a practical, hands-on guide to introduce you to the field of sociology. You will explore the evolution of sociology as a distinct social science, learn about sociological concepts and processes, and discuss how the individual relates to society. You will also learn about the influence of culture, social structure, socialization, and social change in today's society.

Dollars and Sense

GRADE: 9-12

EQUIVALENT PEIMS #: 13024300

CREDIT: .5

DESCRIPTION:

This course covers the fundamentals of personal finance, the role of consumers in the United States' economic system, financial planning in personal life, ways to manage finances, and different investment strategies. It also covers various career options available in the field of personal finance.

World Languages

Note: *Spanish I-III are the only language courses offered directly by Resolution Ranch Academy. All other options are outsourced to EdOptions Academy*

Advanced French A/B (EdOptions Academy Only)

Advanced Spanish A/B (EdOptions Academy Only)

American Sign Language (ASL) 1 A/B (EdOptions Academy Only)

Chinese 1 A/B (EdOptions Academy Only)

Chinese 2 A/B (EdOptions Academy Only)

French 1 A/B (EdOptions Academy Only)

French 2 A/B (EdOptions Academy Only)

French 3 A/B (EdOptions Academy Only)

German 1 A/B (EdOptions Academy Only)

German 2 A/B (EdOptions Academy Only)

Latin 1 A/B (EdOptions Academy Only)

Latin 2 A/B (EdOptions Academy Only)

Spanish 1 A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03440100

CREDIT: 1

DESCRIPTION:

This course introduces the basic language skills of listening, speaking, reading, and writing across all three communication modes: Interpretive, interpersonal, and presentational. Students learn common expressions to communicate about basic, everyday topics and are expected to participate in class actively.

Spanish 2 A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03440200

CREDIT: 1

DESCRIPTION:

This course reviews concepts taught in the previous level and continues with additional structures and vocabulary to increase language proficiency.

PREREQUISITE: Spanish 1

Spanish 3 A/B

GRADE: 9-12

EQUIVALENT PEIMS #: 03440300

CREDIT: 1

DESCRIPTION:

This course extends beyond the basic language program, emphasizing increasing proficiency in reading, writing, speaking, and listening skills.

PREREQUISITE: Spanish 2

Health & PE

Health

GRADE: 9-12

EQUIVALENT PEIMS #: 03810100

CREDIT: .5

DESCRIPTION:

Everyone needs to take care of their body, but we aren't necessarily born with the knowledge of how to go about it. It's important to invest time and energy into understanding what it means to be healthy. You can engage in many activities that are dangerous for your long-term health, so you need to know how to identify and avoid these activities. It's also important to identify lifestyles that will lead to a longer, more enjoyable life. This course will guide you through lifestyle choices you will make, ultimately impacting your life in meaningful ways.

Physical Education 1-4

GRADE: 9-12

EQUIVALENT PEIMS #: PES00000- PES00004

CREDIT: 1

DESCRIPTION:

Your body is a machine that has certain needs—if you treat it well, it should serve you well. But what can you do to promote a fit and healthy body? A course in physical education can show you. By definition, physical education is an instruction in exercise and physical activity. It teaches you how to maintain your fitness, how to measure different aspects of physical fitness, and how to avoid injury while exercising. It's all about getting active and setting your body in motion. By measuring health and fitness with objective data, it's possible to improve your health in a methodical way. Exercise helps you feel good about yourself and helps you sidestep the health problems that often accompany insufficient levels of fitness.

College & Career Readiness

Resolution Ranch Academy also offers extensive preparation courses for the following standardized assessments:

- Accuplacer
- ACT
- SAT
- ASVAB
- HiSET
- GED
- Texas Success Initiative Assessment (TSIA)