

Appendix 3

PAOH Background And Academic Program

Provost Academy–Ohio (PAOH) Background and Academic Program

Provost Academy Ohio (PAOH) is a start-up statewide e-community school based in Cleveland. The school will serve student populations in grades K-12 currently underserved or unserved by traditional education institutions. Initially, PAOH intends to target students statewide in grades 6-12 who need additional flexibility and options to complete middle school and earn their high school diploma. PAOH's mission is to provide historically underserved students with a flexible and highly individualized virtual middle and high school experience. These students include at-risk students and gifted students unserved or underserved by current educational institutions.

PAOH's vision is to deliver a challenging, enriching, and meaningful curriculum through individualized instruction that educates and respect the individual student while realizing that school diversity ultimately feeds a well-rounded culture of respect and understanding. By providing students with cutting-edge technology, customized curriculum, and a distinctive focus on STEM subjects, PAOH students will develop the skills necessary to succeed in the 21st Century. PAOH believes that as students meet high academic expectations and achieve academic success, they will synthesize these skills into their core knowledge base necessary to become intelligent, ethical, responsible, and civic-minded adults.

PAOH's goal is to deliver an elementary, middle and high school education tailored to each student's needs. Each student's academic experience will be compliant with all Ohio Department of Education State Standards and graduation requirements, and will be personalized to accommodate each student's learning goals and interests. At PAOH, students' individualized program will be interwoven with synchronous relationships to encourage social development and civic mindedness. In addition, these programs are purposefully designed to stimulate creativity, develop and cultivate higher order thinking skills, and support the shaping of responsible individuals who are capable of contributing and thriving in global contexts.

Our research shows there is a high interest and continuing growth in e-community schools in Ohio. In projecting enrollment for PAOH, we took into account the enrollment levels of the existing seven statewide e-community schools, which enroll between 1,300 and 8,000 students annually, their growth in enrollment of 500 to 1,000 students per year, and an overall state-wide growth rate of students enrolling in online schools of 14% annually. In the first school year, we project enrolling 500 students statewide, growing by 125 students each year; doubling the number of students enrolled in four years. By starting the school with an initial enrollment of 500, PAOH will focus on creating a solid infrastructure, growing deliberately to keep pace with organic demand without jeopardizing quality of service provided to students and their families.

PAOH's Board understands that stepping into a virtual learning environment can provide much needed help for Ohio students including historically underserved or unserved, "at-risk" by connecting them in new ways to curricula materials and providing more flexibility to accommodate work or family obligations. The highly adaptive format of PAOH's virtual curriculum also allows gifted, independent learners opportunities for acceleration through the selection of advance placement (AP) *eCourses*, for example, which are highly interactive and supported by consistent feedback from teachers on students' performance.

The state has a rural high school graduation rate of 84.5% from a rural student population of 469,948 students – the 4th largest rural student enrollment in the nation. The rural student population is relatively homogenous, ranking below the US median on every diversity indicator. Education spending is less than \$5,000 per student in rural districts with high transportation spending relative to educational spending. The poverty rate among rural students grew by 9 percentage points between 1999 and 2008¹. A virtual high school option will help to ensure equitable access to a high quality education for all students, reduce the cost of transportation, and continue to keep high school graduation rates up across the state.

The findings from the National Governors Association report, “*Achieving Graduation for All*,” show that a combination of academic failure, lack of engagement that leads to poor attendance, problematic behavior, and life events typically combine to convince young people that school is not for them². The Provost Academy model is uniquely structured to offer students a virtual learning option with the supports and flexibility necessary for earning their high school diploma. PAOH accomplishes its mission by using the Provost Academy model to provide:

1. An Engaging and Customizable Curriculum
2. A Rich Selection of STEM Electives
3. State-of-the-Art Learning Management System “eAcademy”
4. Multiple Levels of Student Support
5. Cross Functional Approach to Teacher Responsibilities and Instruction
6. Effective and Efficient Management of Daily Operations

1. An Engaging and Customizable Curriculum

PAOH’s learning environment will be interactive and individualized allowing students to advance at their pace and interests. This changes the traditional classroom dynamic by putting the student and his or her individual needs at the heart of the learning experience whether they are online or at a learning center. Students’ specific learning needs are factored into their individualized learning plan plus each course has a custom-designed textbook, multi-media and web-based learning activities, and formative assessments. Students will also have frequent interactions with a team of advisors and move through the curriculum upon mastery of the material. The goal is student learning. Apple’s research summary on the *Impact of Technology on Student Achievement* (2002) states that students using technology are able to communicate and learn in multiple ways and choose the methods of instruction which they are most comfortable. This builds self-confidence, self-esteem and pride³.

2. A Rich Selection of STEM Electives

Students will access additional STEM instruction beyond the core curriculum through electives designed to capitalize on their interests and build on what they know; so they are engaged in the practices of science, technology, engineering and math. This level and type of engagement follows the National Research Council’s *Framework for K-12 Science Education*⁴. The framework helps students apply STEM practices to real world applications. Students will spend the better part of each day using technology in real world applications to study and examine levels of productivity, efficiency, creative expression, communication, and access to information.

These activities will develop graduates proficient in 21st century technology skills and knowledge necessary for (i) employment as an increasing number of jobs at all levels will require knowledge of STEM⁵; and (ii) participating in personal and societal decision-making from understanding a medical diagnosis to evaluating competing arguments about the environment to managing daily activities using computer-applications like personal banking.

3. State-of-the-Art Learning Management System “eAcademy”

PAOH’s education program is well-anchored in eAcademy, a student-centered learning management system that will be used to enhance and support the virtual learning environment. eAcademy uses a diverse range of applications to support: (i) The online curriculum, textbooks, streaming videos, etc. so relevant student assessment information and other student data are automatically combined in the system to allow for immediate, intentional individualization of instruction for each student. (ii) The collaboration and communication between and among students, teachers, advisors, and parents/guardians using both synchronous and asynchronous tools to create virtual study groups, tutoring sessions, parent/student/advisor conferences, etc. (iii) The administration and management of the virtual learning environment by supporting teachers in classroom management tasks including: scheduling, roster management and attendance; grading, creating and managing assignments; assessments and interventions; course creation; and, the reporting and tracking of students’ progress.

4. Multiple Levels of Student Support

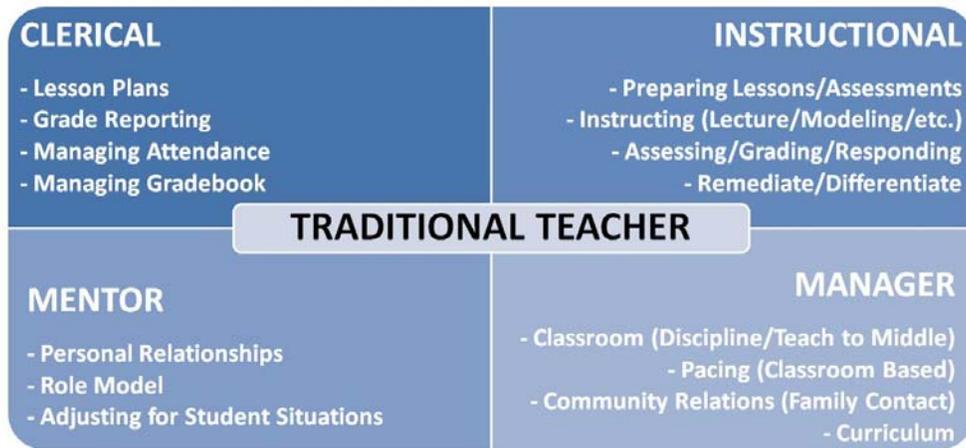
Students will have access to a suite of planning and communication tools through the eAcademy student portal; a team of Advisors to assist with course selection, scheduling, and goal setting; highly qualified teachers; dedicated guidance staff; and an experienced and efficient technical support team. Students are involved in examining the supporting and hindering factors to achieving their high school diploma and are encouraged to develop mentor relationships with family, school staff, and community role models. Advisors help students identify potential mentors and discuss the role of mentors throughout their enrollment at PAOH. The school will strive to build a sense of community among staff, students and their families through various school and/or student-led group and project activities. PAGA believes that parental involvement will be essential to student success and will offer many opportunities for both students and parents/guardians to review and monitor students’ progress as well as interact with staff.

5. Cross Functional Approach to Teacher Responsibilities and Instruction

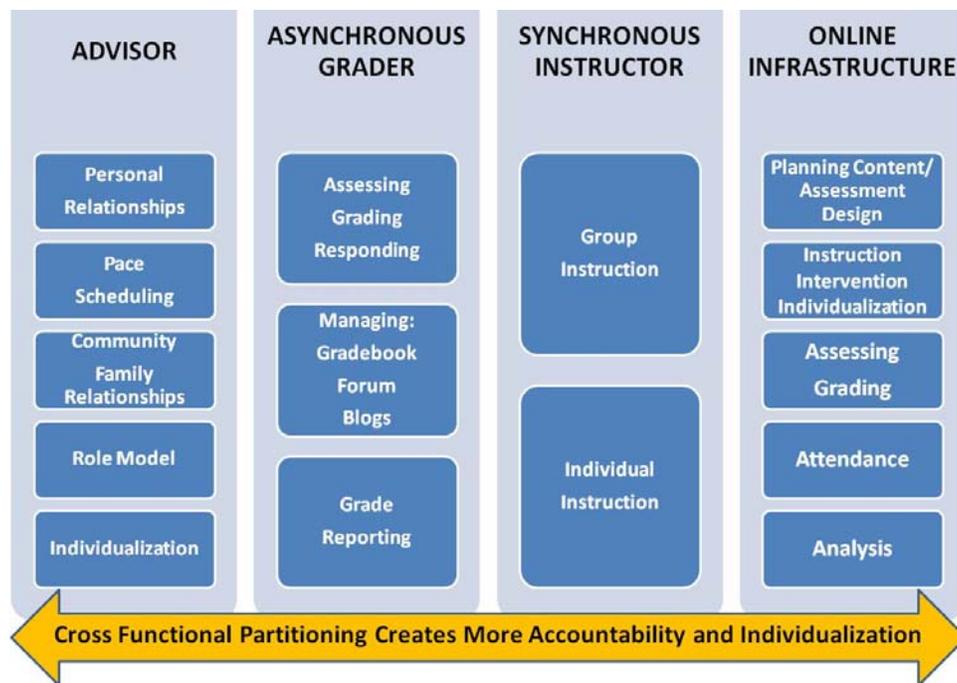
This approach separates traditional teacher duties into a more efficient model that allows collective focus to be placed on the individual student versus the entire classroom. PAOH’s instructional design places students at the center of an engaging and differentiated virtual learning environment through four distinct roles: advisor, asynchronous grader, synchronous instructor/tutor; and the online infrastructure (see diagrams on following page).

(1) *Advisors* interact with students and parents/guardians to discuss progress on each student's Personal Learning Plan (PLP) and receive progress updates. They also provide overall guidance and direction on issues related to each student’s PLP like graduation requirements, course selection and registration, study skills development, interventions, progress towards achievement of academic and career goals, etc. Advisors work closely with all students and their parents/guardians to ensure their success.

(2) *Asynchronous Grader* is a highly qualified instructor responsible for grading student assignments. Since all cumulative assessments are 25% open ended responses, this teacher corrects students' work within 3 days of submission and provides clear and concise feedback to them, manages all discussion forums and blogs, and responds to posts within 24 hours.



Classification of Traditional Teaching Roles and Responsibilities and Instruction



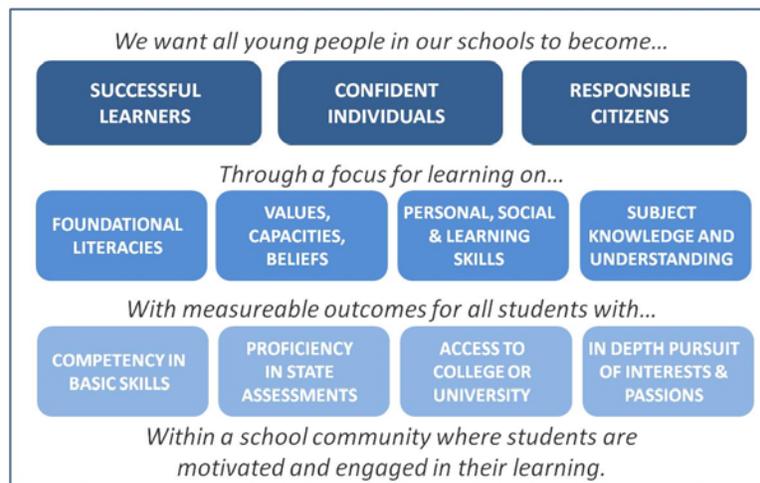
Cross Functional Partitioning of Traditional Teacher Responsibilities

(3) *Synchronous Instructor/Tutor* is a highly qualified subject specific teacher responsible for managing the synchronous environment. This environment has 3 main components: (i) Live on demand tutoring from 8am – 8pm; (ii) Individual tutoring (scheduled time); and (iii) Cooperative Study/Reading Groups. Student to teacher ratio varies and may be 1:1 individual tutoring, 5-10:1 cooperative learning and group discussions.

(4) *Online Infrastructure* (eAcademy) delivers courses to students via an engaging mix of technologies such as flash, streaming video, digital textbooks, etc. This automation of curriculum content, lesson planning, assessments, etc. give teachers more time to spend with students. At PAOH, teachers are able to focus on individual learning needs by working one-on-one with students and in small groups.

6. Effective and Efficient Management of Daily Operations

Education Service Provider, EdisonLearning, will manage PAOH's daily operations on behalf of the school's Governing Board of Directors and working closely with the Principal. They bring over 20 years of school management experience to effectively allocate resources and implement a rigorous, high-quality curricula in virtual teaching and learning setting.



EdisonLearning Student Outcomes

The *eCourses* were developed by EdisonLearning in partnership with Dr. Paul Kim, Assistant Dean and Chief Technology Officer at the Stanford University School of Education. Dr. Kim, a thought leader in the online learning community, thoroughly reviewed and tested the courses for quality, ease of use, and effectiveness, and conducted research in coordination with EdisonLearning to ensure continued fidelity to best practices.

The **Provost Academy** model [described above] of virtual learning instruction incorporates a variety of evidence-based instructional methods to address the diverse range of learning styles expected at the school and will ensure that students receive the level and type of instruction necessary to master required content through: (i) multi-media and multi-sensory virtual instruction; (ii) common-core standards aligned assessments and individualized interventions; (iii) unlimited opportunities for independent study; (iv) synchronous and asynchronous virtual learning opportunities; and (v) proven parental involvement strategies.

Each student enrolled at PAOH will meet with an Advisor to review their academic and personal history, and discuss post-graduation college and career goals. Based on this review and the results of any internal placement exams, the Advisor will recommend a course of study for the student. If a clear determination cannot be made, students will complete additional course-specific diagnostic assessments to determine their academic strengths and weaknesses in a given

subject area. At this point, the Advisor will initiate the development of the student's Personal Learning Plan (PLP), a living document that details the student's journey from enrollment to high school graduation. Additionally, this initial meeting and planning process will allow PAOH teachers to tailor instructional content and methods to meet each student's learning needs.

eCourses are designed in a modular format so lessons are delivered as stand-alone units with clear prerequisite skill identification, which allows for the customization of *eCourses* to fit the needs of individual students, academic situations, and programs. Each lesson has a consistent structure and addresses tightly-focused, standards based objectives that are clear and attainable. This format helps students maintain motivation and focus by reaching achievable goals for each lesson, a technique that fosters success in online learning. Teachers can create custom *eCourses* that correlate to specific standardized tests.

While current research⁶ indicates that most children tend to be visual learners, it also shows that many learn best using other modes of instruction such as auditory and kinesthetic. EdisonLearning has developed PAOH's virtual learning curriculum to use all three of these modalities to ensure each student's success. Some examples of these modalities in the curriculum lesson plans are: (i) need to know prior knowledge videos; (ii) audio playback of content; (iii) discovery education videos; and (iv) digital notebooks.

PAOH offers four world language courses: Chinese I and II; French I, II, III and IV; German I and II; and Spanish I, II, and III. As we develop students with 21st century technology, higher order thinking, and career and life skills, it is imperative to also develop international language fluency and an awareness of other cultures. When students consider issues – public health, environmental/climate impacts, public safety, economics – there is almost always a global component that has to be addressed. To this end, PAOH will offer opportunities for students to learn about and speak a variety of world languages.

PAOH believes well-informed and engaged parents/guardians are paramount to student success. The school will use the eAcademy parent portal for teachers and staff to communicate and involve students and parents/guardians more directly in the overall educational experience of their student through 24-7 secured access to information about their student's course of study and academic progress. Parents/guardians will also be able to send emails directly to their child's teacher and/or Advisor and, in most cases, receive a response within 24 hours. More importantly, regular parent/student conferences with teachers and Advisors will allow for face-to-face discussion of student progress to ensure parents are fully apprised of successes, deficiencies, interventions, and the overall learning environment.

Other Supporting Program Documents:

- EdisonLearning 5 Strand Design for School Management
- eCourse Catalog

REFERENCES

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- ⁵ Bureau of Labor Statistics, Monthly Labor Review (December 2010). *Occupational Employment Projections to 2018*. Retrieved from website: <http://www.bls.gov/opub/mlr/2009/11/art5full.pdf>.
- ⁶ Journal of Applied Educational Technology (Spring/Summer 2007). *Learning Styles: A Focus upon E-Learning practices and their Implications for Successful Instructional Design*. Retrieved from website: http://www.eduquery.com/jaet/JAET4-1_Cooze.pdf

The EdisonLearning 5 Strand Design: Essential Questions

Student and Family Support:

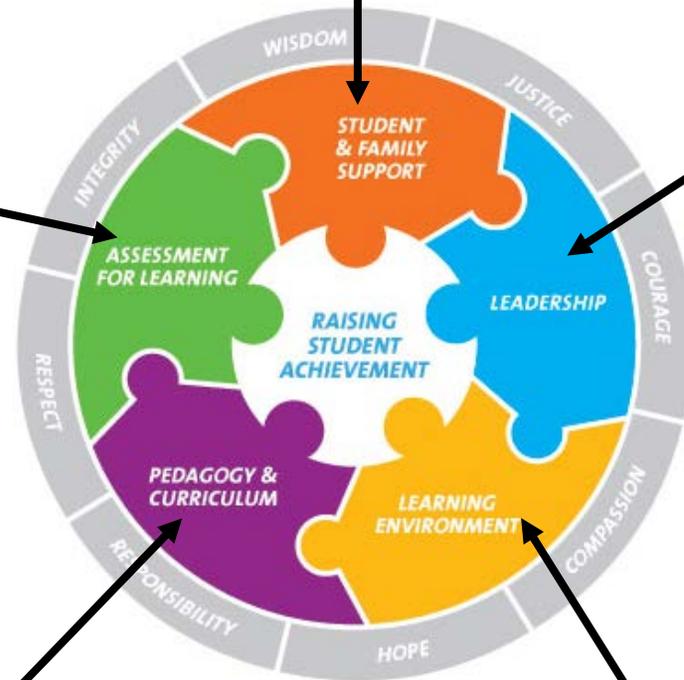
How well does the school use internal and external resources to meet the needs of all students?

Assessment for Learning:

How does data, assessment and feedback promote student learning?

Leadership:

How well is the school set for leading and managing change?



Pedagogy & Curriculum:

How good are opportunities for learning and developing learners?

Learning Environment:

How well does the school promote and foster environments that support learning and motivation?



The EdisonLearning 5 Strand Design

Annual Professional Development Opportunities

The EdisonLearning 5 Strand Design is a holistic, research-based framework built upon five areas of focus integral to school improvement. The following list of essential questions illustrates how the 5 Strand Design serves as a comprehensive framework for school improvement:

- How well is the school set for leading and managing change? (Leadership)
- How well does the school promote and foster environments that support learning and motivation? (Learning Environment)
- How good are opportunities for learning and developing learners? (Pedagogy & Curriculum)
- How well does the school use assessment, data, and feedback to promote learning? (Assessment for Learning)
- How well does the school use its internal and external resources to meet the spectrum of need for all learners? (Student & Family Support)

The 5 Strands can be summarized as follows:

- **Leadership:** realizing vision to reality by establishing shared vision, values, and culture, developing the leadership capability of the Principal and Leadership Team, distributing leadership through the school, leading a robust planning, review, and change management processes, establishing effective management systems and team building, and maximizing structures, time and teams.
- **Learning Environment:** creating a culture of achievement through the establishment of a set of Core Values and an associated Community Code for the whole school community, incorporating positive behavior management strategies as part of overall Social Policy, maximizing the physical environment for learning, building student engagement and relationships for learning, mentoring for learning – regular discussion of learning needs and goals, establishing high expectations and a college focus, and using student voice by gathering feedback on the student learning experience to improve learning and teaching.
- **Pedagogy and Curriculum:** building learning capacity by developing an in-depth understanding of teachers' skills with an intentional professional development program, implementing a Quality Framework for Learning and Teaching that provides a shared language for developing best practice with self review and coaching, developing effective pedagogy based on how students learn, curriculum organization and planning around scope and sequence to deliver student learning outcomes, introducing Core Learning Skills – 21st Century learning and life skills, supporting curriculum programs/resources and guides, ensuring a coherent student learning experience that is differentiated and personalized.
- **Assessment for Learning:** ensuring a data intelligent school in which student achievement is regularly assessed and used to take timely action on what to teach next, student/teacher teams create regular time to meet to review data, identify vulnerable groups/students, and plan how to meet their achievement targets (achievement teams), data on achievement is analyzed at different levels from classroom to whole school to identify action, developing staff skills in

analyzing data and assessing student proficiency and progress, and intentionally developing students' capacity to assess their own learning and that of their peers.

- **Student and Family Support:** promoting success for all students by developing the school system and organization of supports to meet all student needs, tracking student progress and flexibly targeting supports, fostering parent partnerships and community engagement, conducting student learning conferences with parent, student, and teacher, and developing an effective team around the school for the benefit of students and their families.

All professional development offerings support the implementation of the 5 Strand Design within our schools, with all activities leading towards the desired outcomes of our school design, or the "Features of an Outstanding School," a set of design standards organized around the 5 Strands. Professional development is organized to ensure growth at all levels: teachers, teams, and leaders.

The Implementation Journey:

Each school we support will embark on a three-phase implementation journey aligned to the 5 Strand Scope and Sequence leading towards the desired outcomes, or Features. Along the way, schools can measure their progress against a set of Implementation Milestones, a sort of road map that guides their journey. EdisonLearning staff at a variety of levels within the organization support this journey in several ways:

The National Strand Lead Team: A team of 5 Executive Directors, each assigned to oversee the development, delivery and implementation of the professional development content related to their respective strand, led by the Vice President of Professional Development and Curriculum.

Executive Director, Education Services Lead: Serves as the liaison between the National Strand Lead Team and Field Support Staff to ensure that professional development opportunities are aligned with the 5 Strand Design and each site's implementation plan.

Field Support Staff, including Sr. Vice President of Educational Services, Vice President of Educational Services, and Specialists assigned to various disciplines: Responsible for delivering direct site services to the schools, including leading professional development opportunities, sharing resources integral to design implementation, and coaching teachers and leaders in order to realize sustained improvement in student achievement results.

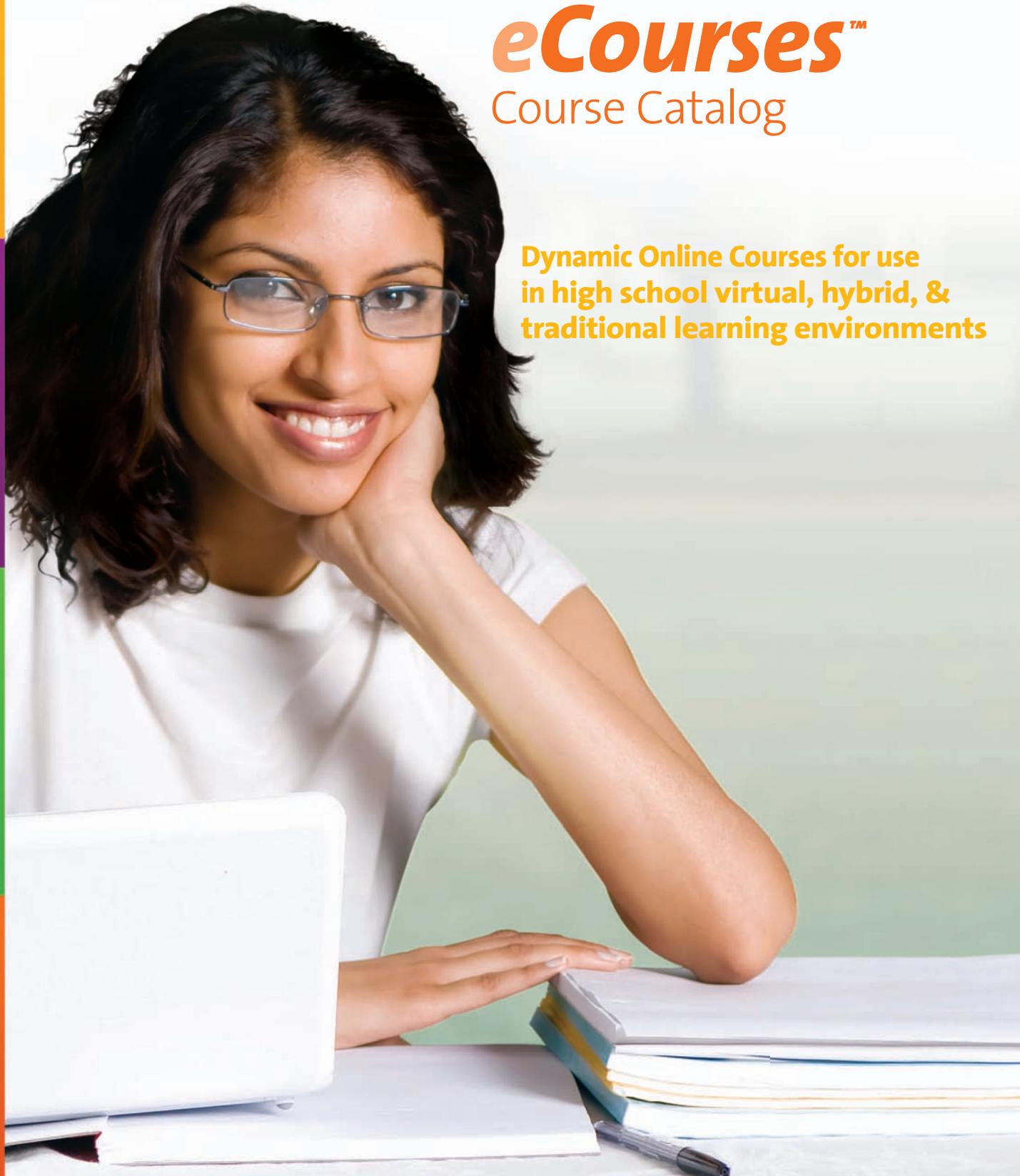
Professional Development: an annual process, not simply a series of events

How is professional development delivered?

There are a variety of vehicles for delivering professional development to school staff across our system:

- **ELDA, The EdisonLearning Leadership Development Academy:** Two annual events (July and November) designed to advance the professional growth and development of our building principals in concert with their Vice President of Educational Services, their key point of contact and support in the field. These 2-3 day conferences support the continued implementation of the 5 strand design with increasing fidelity as leaders explore the design in various ways through our leadership framework.

- **Regional ILC, Regional Instructional Leadership Conferences:** An annual event, generally held in the fall or winter, during which the regional support team tailors a PD agenda designed to support the professional growth and development of the Leadership Team members and instructional leaders throughout the region. These events are supported by the National Strand Lead Team to ensure alignment to the 5 Strand Design Scope and Sequence. These events also correlate to the contents covered during the ELDA conferences.
- **PD Modules and resources aligned to the 5 Strand Scope and Sequence:** A wealth of resources supports the three-phase implementation journey that each of our schools is on. These resources are organized by strand and by quarters, beginning with quarter 0 and ending with quarter 12. They are designed to develop capacity in a variety of key competencies for leaders, teams and teachers, ensuring ever-increasing fidelity to the design and improved student achievement outcomes. A detailed list of the Quarter 0 and Quarter 1 resources are attached for your review, meant to serve as a sampling of the type of professional development opportunities available to all staff. These modules are generally delivered by field support staff in the following ways:
 - During Professional Development days;
 - During house planning time;
 - During Leadership Team meetings;
 - During before or after school PD sessions;
 - During virtual learning opportunities like webinars or conference calls;These events can be carefully scheduled according to a school's implementation plan, or on demand as the need arises.
- **Leadership Development Cohort:** A series of events occurring every 6-8 weeks for new or emerging building leaders designed to engage them in collaborative discussions around practical issues faced every day by the leaders in our schools. Topics include building a collaborative culture, interpersonal leadership, enhancing capacity through distributive leadership, and time management strategies.



eCourses[™]

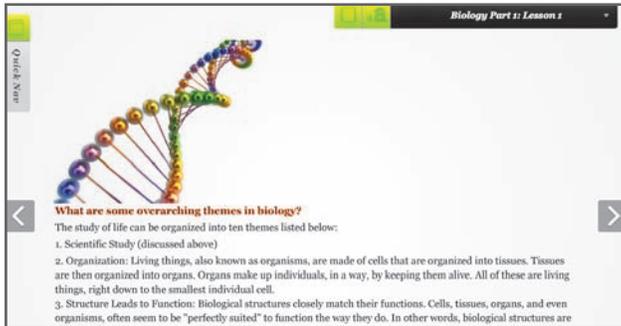
Course Catalog

**Dynamic Online Courses for use
in high school virtual, hybrid, &
traditional learning environments**

EdisonLearning eCourses™ at a Glance

Multisensory Engagement

eCourses are delivered with multimedia features that address diverse student needs, support literacy, and reinforce key concepts. Features such as interactive **demonstrations, games, videos, virtual science labs, forums, blogs** and a **text-to-speech tool** engage students and support multiple learning modalities. In the Research Center, an **avatar-based virtual world**, students communicate and collaborate with classmates and teachers, share and discuss art, play games that reinforce key academic concepts, participate in virtual science labs, and access a number of other multimedia resources that enrich their studies.



Above: Lessons include engaging multimedia components.

Flexible Structure

The content of eCourses is based on a **modular design**. Each lesson contains instruction in prerequisite knowledge so each lesson can be delivered as standalone, allowing for off-the-shelf use or customization of courses to suit scope and sequence requirements in any state. Each lesson includes learning objectives that are clear and attainable and ends with an assessment. Courses are organized in four-part years with three summary assessments per part.

Research & Experience

EdisonLearning uses proven methodologies to deliver the most engaging and innovative courses on the market. EdisonLearning teachers and experts developed eCourses using **best practices fostered over a decade** of online learning experience and twenty years of experience driving achievement in brick and mortar schools. eCourses have undergone a rigorous independent review process by Dr. Paul Kim, Assistant Dean and Chief Technology Officer at the Stanford University School of Education. Dr. Kim, a prominent leader in the online learning industry, reviews and tests the courses for quality, usability, and effectiveness.

Foundation Courses

EdisonLearning Foundation eCourses are designed to ensure that students master foundational skills and knowledge that are critical building blocks for upper level courses in core academic areas. Foundation eCourses provide the structure and multimedia tools to ensure student engagement and are suitable for high achieving and struggling students alike.

New, Dynamic Platform

Foundation Courses are delivered through an innovative course player which provides an appealing interactive environment that incents students to progress through the courses. This **gaming-style interface** is engaging and intuitive for 21st century learners.

Guided Learning Paths

The linear organization of lesson content allows students to progress through courses in a guided learning path.

This structure is helpful to students because:

- Course content is arranged in a prescribed order and delivered in manageable increments.
- Students progress through lessons with intuitive clicks and limited scrolling, reducing reader fatigue.
- Courses are self-remediating; students who feel unprepared or do not pass an assessment have additional resources provided to them.
- Each lesson includes clear and attainable learning objectives and a graded assessment.
- Students must demonstrate mastery of each lesson before proceeding to the next.



Above: Students navigate the Research Center with avatars.

Learn More

For more information email us at information@edisonlearning.com or call us at **1-877-422-6532** or go to www.edisonlearning.com/ecourses.

Working together for student success™

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American Literature (English 11)

Available as Foundation Course!

American History is designed to provide students with a comprehensive and engaging profile of the history of the United States of America from the end of the Civil War in 1865 to the height of the Cold War in 1980. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course is organized as a journey through the key events that have shaped America as a nation since the divisive and destructive Civil War. The journey begins with the Reconstruction, a period of great transition and opportunity to heal a broken nation. It passes through the great migration westward and explores how the Industrial Revolution and waves of immigration fueled the flames of the American spirit today. The course details the challenges America faced and how equality did not come freely for populations of American Indians, African Americans, immigrants, and women. Students will learn how the core values of the founding fathers eventually prevailed and led to the Women's Suffrage and Civil Rights Movements. The impact of war is closely investigated in the course, with units covering the role of the United States in World War I, World War II, the Korean War, and the Vietnam War. Throughout this journey, the course highlights the great political, industrial, military, and human rights leaders who shaped America into a beacon of hope. At the completion of this course, students will have gained both a knowledge of and appreciation for the events and people who have impacted the growth of a nation.

British Literature (English 12)

Available as Foundation Course!

This course provides the tools necessary for students to become active readers, critical and logical thinkers, and clear, concise writers. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

This course focuses on British literature because of its long-term influence on American culture and its variety of literary forms. The instruction will offer a variety of strategies to assist in the development of the reading and writing skills necessary in any discipline. Each unit will follow a pattern designed to enhance existing reading comprehension, writing abilities, and speaking and listening skills, while offering a variety of British literature and providing ample opportunity to develop a deeper overall vocabulary. A written assignment, an exercise in organization, and an oral presentation in podcast form will also be part of the weekly process. After the completion of this course, students will have gained an understanding of British literature, and increased their vocabulary skills in reading comprehension, speaking, listening, and writing.

SAT® Critical Reading & Writing

The course is designed to help students prepare for the critical reading and writing portions of the SAT®. The course consists of one part containing three, fifteen-lesson units. Each unit of the course is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the lesson.

In this course, students will learn about comma usage, case, identifying and creating complete sentences, and writing sentences that are concise and that have subject-verb agreement. Students will also learn reading comprehension skills, including inferring ideas, understanding tone and intention, and identifying the meaning and the important and non-important parts of a piece of writing. Finally, students will understand how to apply correct grammatical structure to sentences, recognize and understand modifiers and idioms, and develop a piece of writing in response to an essay question. At the completion of this course, students will have gained both a knowledge of and appreciation for the concepts included in the critical reading and writing sections of the SAT®.

World Literature I (English 9)

Available as Foundation Course!

This course is designed to introduce students to some great works of literature from around the world, while helping them to develop the skills that they need in order to analyze and respond to the literature. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course begins with some ancient and influential pieces, and works its way forward to present day literature. Throughout this process, the students will see that, although language and customs change, human beings today have many of the same experiences, ideas, and feelings that they had thousands of years ago. With that knowledge, the students can relate to and learn from both ancient authors and modern authors, and can then share what they learn with those around them. Each day will give the students an opportunity to practice different skills, including reading and analysis, speaking and listening, grammar, writing, and vocabulary. The students will also learn how to use various tools for review and understanding. At the completion of this course, students will have gained both a knowledge of and appreciation for works of World literature, and will have increased their skills in reading, analysis, grammar, writing, and vocabulary.

World Literature II (English 10)

Available as Foundation Course!

This course is designed to expand the student's knowledge of great works of literature from around the world, while helping them develop the skills to be able to analyze and respond to the literature in greater depth. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course begins with a detailed view of ancient and influential pieces, and works its way forward to present day literature. Throughout this process, the students will gain a greater understanding of how language and customs change. Students will recognize the similarities and differences in human beings today and throughout history. Each day, students will practice reading and analysis, speaking and listening, grammar, writing, and vocabulary. The students will also learn how to use various tools for review and understanding. At the completion of this course, students will have gained both a knowledge of and appreciation for works of World literature, and will have increased their skills in reading, analysis, grammar, writing and vocabulary.

Mathematics

Algebra I	<p style="text-align: right;">Available as Foundation Course!</p> <p>This course is designed to provide a solid foundation in algebra. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.</p> <p>The course is organized as a journey through algebraic concepts and the applications of algebra. The focus is on linear equations, inequalities, functions, graphing, systems of equations, polynomials, factoring, quadratic equations, probability, statistics, rational expressions, roots, and radicals. Throughout this journey, students will build critical thinking skills and problem-solving techniques that are required to help students grasp algebraic fundamentals. At the completion of this course, students will have gained both a knowledge of and appreciation for algebra and the problem solving skills that they gain in this course will prepare them for future courses.</p>
Algebra II	<p style="text-align: right;">Available as Foundation Course!</p> <p>This course is designed to provide a solid foundation in advanced algebra. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central topic as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.</p> <p>The course guides students through algebraic concepts and the applications of advanced algebra. Students will focus on linear functions, linear systems, matrices, quadratic functions, polynomial functions, polynomials, exponential functions, logarithmic functions, rational functions, radical functions, conic sections, probability, statistics, sequence, series, and trigonometric functions. Students' critical thinking skills and problem solving techniques will develop throughout the course. By the end of this course, students will have gained both a knowledge of and appreciation for algebra and problem solving that will prepare them for future courses.</p>
Calculus	<p>This course is designed to provide a solid foundation in calculus. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.</p> <p>The course guides students through calculus by focusing on functions, graphs, limits, differentiation, integration, parametric functions, and polar functions. Students' critical thinking skills and problem solving techniques develop as they work through this course. At the completion of this course, students will have gained a knowledge of and appreciation for calculus and its applications.</p>
General Mathematics	<p>This course is designed to motivate students and to establish a strong foundation for their success in developmental and consumer mathematics. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.</p> <p>In this course, students will take a journey through basic mathematics and its applications, focusing on whole numbers, integers, decimals, and percent. Throughout this journey, the course highlights building mathematics skills to help students make sense of the mathematics that they encounter each day. The students will use these basic concepts in the application of wages, banking, interest, credit, and consumer costs. At the completion of this course, students will have gained both a knowledge of and appreciation for mathematics and problem solving that will prepare them for their futures.</p>
Geometry	<p style="text-align: right;">Available as Foundation Course!</p> <p>This course is designed to provide a solid foundation in geometry. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.</p> <p>The course is organized as a journey through geometry and the applications of geometry. The course focuses on parallel lines, perpendicular lines, triangles, circles, polygons, area, volume, similarity, trigonometry, geometric reasoning, and proofs. Throughout this journey, the course highlights building critical-thinking skills, and problem solving techniques required to help students grasp geometric concepts. At the completion of this course, students will have gained both a knowledge of and appreciation for geometry and problem solving that will prepare them for future courses.</p>

Mathematics, continued

Available as Foundation Course!

Pre-Algebra

This course is designed to help students make a successful transition from arithmetic to algebra. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The basic concepts of arithmetic and the applications of mathematics are the focus of this course. Students will learn about integers, fractions, decimals, expressions, equations, ratios, proportions and percents, inequalities, graphing, probability and statistics, and geometry. The course highlights the math skills that help students make sense of the mathematics that they encounter each day. At the completion of this course, students will have gained both a knowledge of and appreciation for algebra and problem solving that will prepare them for future courses.

Pre-Calculus

This course helps students develop a solid foundation of concepts needed to prepare for calculus. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course helps students prepare for calculus by focusing on linear, rational, polynomial, exponential, and logarithmic functions, systems of equations, systems of inequalities, matrices, trigonometry, series, sequence, probability, vectors, and analytical geometry. Students will improve their critical thinking skills and their problem solving techniques. At the completion of this course, students will have gained both knowledge of and an appreciation for Pre-Calculus and problem solving that will prepare them for future courses.

Probability

This course is designed to provide students with a comprehensive and engaging look at probability. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will be introduced to the field of probability. Students will learn about the basic terms, types, theories and rules of probability. Next, the course covers random outcomes and normal distributions, as well as binomial probabilities. Finally, students will learn about geometric probability, sampling distribution, how to understand populations, and the central limit theorem. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of biotechnology and its impact.

SAT[®] Math

This course is designed to help students prepare for the mathematics portion of the SAT[®]. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn about basic mathematical theories and operations, including rational numbers, integers, methods to solve counting problems, and the characteristics of sequences and series of numbers. Students will learn how to use algebra to solve problems, including polynomial functions, linear equations and inequalities, and variation. The final unit covers geometrical shapes and how to calculate the area and perimeter of polygons and the circumference of circles. Students will also learn to solve for missing angles and sides of triangles, and understand lines, similar figures, and ratios. At the completion of this course, students will have gained both a knowledge of and appreciation for the concepts included in the SAT[®] Math exam.

Statistics

This course is designed to provide students with a comprehensive and engaging look at the field of statistics. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn about statistics, including basic concepts, graphs used to represent data, and ways to analyze data. Students will learn how to explore statistical relationships, including the use of correlations, residuals and residual plots, and scatter plots. Finally, students will learn how to model nonlinear relationships using exponential and logarithmic functions and how to design a sample to produce the correct type of data (observational vs. experimental). At the completion of this course, students will have gained both a knowledge of and appreciation for the field of statistics and its importance.

Mathematics, continued

Trigonometry

This course is designed to provide a solid foundation in trigonometry. It is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Trigonometry concepts and the applications of trigonometry are the focus of this course. Students will investigate graphs, linear functions, quadratic functions, trigonometric functions, analytical trigonometry, analytical geometry, vectors, and advanced functions. Students will develop their critical thinking skills and problem solving techniques so that they succeed in understanding and applying trigonometric principals. At the completion of this course, students will have gained both a knowledge of and appreciation for trigonometry and problem solving that will prepare them for future courses.

Astronomy

Students who enroll in this course will take a fascinating journey through the cosmos and learn the basic concepts involved in the study of astronomy. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course begins with a study of the celestial objects closest to home, scanning the solar system to provide students with an overview of the planets, moons, asteroids, and comets that revolve around the sun. The second unit moves beyond our solar system to cover the characteristics of our galaxy – the Milky Way. Students will be amazed to learn the sheer size of this system and of other galaxies nearby. They will also be in awe of what they learn about the formation and death of stars, supernovas, black holes, and even theoretical wormholes. Finally, the course reaches to the edges of time and space to investigate the properties of the Universe as a whole. Theories explaining the very beginnings of existence and the expansion of the Universe will be covered. Students will also learn about Einstein's theory of relativity and time travel and the search for extra-solar planets. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of astronomy and its importance.

Available as Foundation Course!

Biology

This course will provide students with a broad and interactive experience covering the main topics of biological science. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept. Students will find graded assessments after each lesson and an exam at the end of each unit. There are also lab activities throughout the course to reinforce the material and give the students an opportunity to apply their knowledge through experiments and activities.

Biology as a science is a large, complex, and ever-changing topic that will serve as a foundation course for high school students. Students will be exposed to topics ranging from the process of science to cell reproduction to the diversity of life. Also covered in this course are the chemical components of life, the process of energy conversion, and life's functions. The subjects of genetics and evolution are also explored and the course focuses on the latest scientific research to support the students' learning. Finally, ecology is covered to raise student awareness of the many challenges and opportunities of the modern biological world.

Biotechnology

This course is designed to provide students with a comprehensive and engaging look at the field of biotechnology. The course consists of one part of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course. In this course, students will learn about the history of biotechnology and advances in the field, as well as basic information about biotechnology laboratories and careers. Students will learn about chemistry and units of measurement used in biotechnology, as well as basic biology of the cell, DNA, RNA, and proteins. Finally, students will learn about applications of biotechnology in the research lab and in industry, including enzymes, techniques, plasmids, and other key biotechnologies. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of biotechnology and its impact.

Available as Foundation Course!

Chemistry

This course will provide students with an engaging and effective online experience in the field of chemistry. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each part of the course. Lab activities are found throughout the course; they serve as reinforcement of the material and an opportunity for students to apply their knowledge through experiments and activities.

Chemistry is an important science course that challenges the students to apply their studies in previous sciences to new theories, models, and problems. The course begins with a discussion of the history and importance of chemical principles, moves through the various models of the atom and chemical reactions, explores relationships among liquids, gases, and solids, and investigates the role of energy in these relationships. The course ends with a unit on organic chemistry, a branch of the science that focuses on the molecules that are important to living things. At the completion of this course, students will have gained a basic knowledge of and appreciation for the field of chemistry, and its importance.

Available as Foundation Course!

Earth Science

This science course will provide students with the core knowledge of Earth's natural systems and place in the Universe. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units, each based on a central concept as outlined below. Graded assessments follow each lesson and an exam follows each unit.

Earth Science is the combined study of geology, physics, chemistry, and biology as they impact our Universe, the Earth's internal processes, and the structure and relationships of the natural world. Included in this course is a study of the Earth's air, water, and physical processes that shape the physical world. This course also focuses on how human civilization has impacted the balance of nature. Students will gain knowledge of the most modern science behind topics such as continental drift, fossil dating, the cause of the seasons, natural disasters, ocean ecosystems, and alternative energy sources. At the completion of this course, students will have gained an appreciation for and understanding of Earth Science, and will have laid the groundwork for future studies in science and is designed to overview the topics in an interactive and engaging way.

Environmental Science

This course is designed to provide students with an engaging and effective profile of the living relationships, abiotic factors, human influences, and current state of Earth's ecosystems. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Environmental Science, sometimes referred to as Ecology, is the study of the relationships and interdependence of organisms and their connection to the non-living, or abiotic, factors in the natural world. The course begins with a review of science as a process and the general components of Earth's structure that impact life. It then progresses through a study of the living groups and their relationships to one another, focusing on the balance achieved by nature through these relationships. Populations are explored and examples of unchecked growth and rapid extinction are provided in the context of their effect on ecosystems. A unit is dedicated to aquatic ecosystems, the organisms that live there, and the impact man has had on the delicate balance and complex systems found there. The influence of energy extraction, production, and use is covered, and the course ends with a unit that gives students information concerning the positive influence man can have on the environment through conservation and sound management practices. At the completion of this course, students will have an understanding of and appreciation for environmental science and its impact on their daily lives.

Epidemiology

This course is designed to provide students with a comprehensive and engaging look at concepts and applications in the field of epidemiology, the study of population health. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will be introduced to the field of epidemiology, including the basic concepts related to infectious disease, specializations in epidemiology, and study design. Students will learn about the specific parts of an epidemiology study and why they are important. Finally, students will learn how to understand epidemiologic studies, including types of sampling, selection bias, standardization, confidence intervals, and evidence-based research. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of epidemiology and its impact.

Forensics

This course is designed to provide students with a comprehensive and engaging look at the field of forensics. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will be introduced to the field of forensic sciences. Students will learn the definition of forensic sciences as well as careers, laboratories, crime scene processing, evidence, and the impact of media on criminal investigations and trials. Students will learn about specific techniques used in crime scene investigation, including autopsy, fingerprint analysis, DNA fingerprinting, and other types of evidence and analysis important to solving crimes. Finally, students will be introduced to a variety of specialized forensic sciences, analyze specific case studies, and learn about the Innocence Project and Freedom Project. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of forensics and its application.

Genetics

This course is designed to provide students with a comprehensive and engaging look at the field of genetics. The course consists of one part containing three, fifteen-lesson units. Each unit is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will be introduced to the field of genetics. Students will learn about the theories of Darwin and Wallace, the concepts of adaptation, genotype and phenotype, and basic concepts related to cells, DNA, and RNA. Students will also learn about Gregor Mendel, his pioneering work in genetic variation, and the basic concepts that have been developed since. Finally, students will learn about applications of genetics, including metagenomics, genetically modified organisms, DNA technologies, genetic testing, and other clinical and non-clinical applications of the technology. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of genetics and its application.

Introduction to Technological Sciences

Students who choose to enroll in this course will learn about three main fields of technological science: engineering, biotechnology, and information technology. The course consists of one part containing three, fifteen-lesson units. Each unit is based on a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each course.

The first unit of the course surveys fifteen distinct sub-fields of engineering, exploring the science background, real-world applications, and career opportunities of aerospace, nuclear, software, and other types of engineering. The second unit involves the study of cutting-edge biotechnology topics like gene therapy, bioengineering crops, and biodegradation. The last unit of the course focuses on the study of informational technology, covering computer networking, data storage, and the encryption of data to provide secure communication. At the completion of this course, students will have a general knowledge of and appreciation for technological sciences and their applications.

Life Science

Life science will introduce students to the structure and function of living things and the natural relationships that exist on Earth. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units that are based on a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

This course is designed as a survey of the biological sciences to give students a foundation that they will need in future science courses concerning the natural world. The course begins with the definition of life and a discussion of how living things are classified and organized by scientists. Students will then work through material that presents the molecular building blocks of organisms, both microscopic and macroscopic views of life, the diversity and universality of species, and the characteristics of various groups of life. The course culminates with a unit on evolution, asking students to apply what they learned about the natural world to the complex relationships and environmental factors that have shaped the ever-changing species sharing the world today. At the completion of this course, students will have a basic knowledge and understanding of the biological sciences and their importance in studying the world around them.

Natural Disasters

This course gives an overview of the different types of catastrophic forces of nature and their impact on the populations that they strike. This course consists of one part containing three, fifteen-lesson units. Each of the three units is structured around a central concept as outlined below. After each lesson, students will find graded assessments and an exam ends each unit.

Around the globe, natural disasters are a seemingly daily occurrence. This course will give students a greater understanding of what causes them and what effect they have; students will also investigate what can prevent such disasters. The first unit covers land based events, detailing how scientists predict and react to avalanches, earthquakes, volcanic eruptions, mudslides, and fires. The second unit focuses on catastrophic events that begin in the ocean and atmosphere, describing the impact of flooding, hurricanes, blizzards, and droughts. The final unit of the course explains how disease spreads and how quickly it can impact the world's population. This last unit of this course also focuses on potential catastrophic impacts from comets and asteroids. At the completion of this course, students will have an understanding of natural disasters and their impact on the world.

Available as Foundation Course!

Physical Science

This course is designed to cover the concepts in the field of physical science in an interactive and engaging way. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each unit is based on a central concept as outlined below. Students will find graded assessments after each lesson and an exam ends each part of the course. There are also lab activities found frequently throughout this course to reinforce the material and to give the students an opportunity to apply their knowledge through experiments and activities.

Physical Science covers material from the sciences of chemistry and physics, providing the students with a survey of the main concepts of these disciplines. The course begins with a unit on the nature of science and a review of measurement and its importance. The study of chemical principles then begins, exposing students to topics such as the properties of matter, the structure of the atom, the formation of bonds, and the properties of solutions. The course then moves to the science of physics, describing the topics of motion, force, work, and energy. Students in the course are asked to apply their knowledge of these topics through problems, explanations, and graphs, while maintaining their interest through engaging activities and explorations.

Physics

This course will provide students with an engaging and effective online experience in physics. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept. Students will find graded assessments after each lesson and an exam at the end of each part of the course.

Although physics can be a challenging science, this is an incredibly engaging and rewarding course that is designed to provide students with an overview of the traditional subject matter and present the latest, most modern research in the field today. Beginning with Newtonian Mechanics, students will learn that every object is acted upon by multiple and predictable forces. The course moves on to cover fluid mechanics and the relationships between matter and energy as the laws of thermodynamics are investigated. The course also covers the topics of electricity and magnetism and explores the various models used to explain and apply these universal forces. Students also learn the characteristics of waves and the basics of optics before the final set of lessons on atomic physics. Here, the students will review the characteristics of the atom and its elemental particles; students will also apply their knowledge to modern physics. At the completion of this course, students will have a knowledge of and appreciation for the field of physics and its applications.

Science of Computing

Students in this course will survey the past, present, and future of computer technology. The course consists of one part containing three, fifteen-lesson units. Each unit is structured around a central concept as outlined below. A graded assessment comes after each lesson and an exam ends each unit.

Did you know that Stonehenge may actually have been used as a type of computer? This is the kind of fascinating information students will find in the first unit of this course. Also covered in this initial unit are inventions like the abacus and advancements like the microprocessor that have made today's technology possible. The second unit of the course covers the science behind the hardware and software used today. Topics like algorithms, operating systems, and networks are described in detail and placed into context as tools for human innovation. Finally, the course looks to the future, introducing students to foreseeable improvements to current technology and visionary breakthroughs like artificial intelligence, quantum security, and biological processors. At the completion of this course, students will have a basic understanding of the past, present and future of computer technology.

Sports Science

This course provides students with a survey of the impact of physics, biomechanics, and physiology on modern day sports. The course consists of one part containing three, fifteen-lesson units. Each unit is structured around a key concept as outlined below. Students are assessed after each lesson and are given an exam at the end of each unit.

Each unit of Sports Science will cover the same fourteen sports from the perspective of the listed sciences. The first unit will describe the role physics plays in a variety of sports, from the aerodynamics involved in auto racing to the force behind a boxer's right hook. The next unit investigates the biomechanics of these sports, discussing concepts like the contortion of a gymnast's body and the cause of tennis elbow. The last unit focuses on the limits of the human body, describing the energy used by cyclists during a mountain climb through the Alps and the reaction time required to hit a 90 miles per hour fastball. Overall, the course presents engaging information that will forever change the way students look at world-class athletes and competition.

Superstars of Science

This course is designed to provide students with an interesting overview of the most influential scientists in history - the superstars of science. The course consists of one part, which is divided into three, fifteen-lesson units. Each unit of the course is structured around a central concept. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Superstars of Science will help students appreciate the accomplishments and impact on today's society of forty-five different scientists. This course is organized sequentially, covering scientists who lived in Ancient Greece through those who are still alive and working today. This timeline structure allows students to see how science is cumulative in nature and how the discoveries and inventions of every scientist are influenced by past breakthroughs. It is commonly said that every great scientist stands on the shoulders of those in the past, and this course explores that concept. The biography of each scientist, one per lesson, includes not only their contributions to their field, but also the context of their work at the time and the reaction of the world to their ground-breaking ideas. At the completion of this course, students will have an understanding of the work of important scientists and their cumulative impact on modern science.

Social Studies

Available as Foundation Course!

American History

American History is designed to provide students with a comprehensive and engaging profile of the history of the United States of America from the end of the Civil War in 1865 to the height of the Cold War in 1980. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course is organized as a journey through the key events that have shaped America as a nation since the divisive and destructive Civil War. The journey begins with the Reconstruction, a period of great transition and opportunity to heal a broken nation. It passes through the great migration westward and explores how the Industrial Revolution and waves of immigration fueled the flames of the American spirit today. The course details the challenges America faced and how equality did not come freely for populations of American Indians, African Americans, immigrants, and women. Students will learn how the core values of the founding fathers eventually prevailed and led to the Women's Suffrage and Civil Rights Movements. The impact of war is closely investigated in the course, with units covering the role of the United States in World War I, World War II, the Korean War, and the Vietnam War. Throughout this journey, the course highlights the great political, industrial, military, and human rights leaders who shaped America into a beacon of hope. At the completion of this course, students will have gained both a knowledge of and appreciation for the events and people who have impacted the growth of a nation.

Early American History

This course is designed to provide students with a comprehensive and engaging look at early American history from the impact of the early Spanish explorer through the Civil War. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn about key events of European exploration and colonization of the Americas. Students will learn about the establishment of the United States as an independent country, the importance of the US Constitution, and the impact of the Constitution on the continued development of the country. At the completion of this course, students will have gained both a knowledge of and appreciation for the early history of the United States.

Macroeconomics

This course engages students in a comprehensive study of Macroeconomics and is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept. Graded assessments follow each lesson and an exam concludes each unit.

In this Macroeconomics course, students will study the branch of economics that deals with the performance, structure, and behavior of a national or regional economy as a whole. Along with microeconomics, macroeconomics is one of the two most general fields in economics. Macroeconomists study aggregated indicators such as GDP, unemployment rates, and price indices in order to understand how the whole economy functions. Upon completing this course, students will recognize the events and people who have impacted the growth of macroeconomics.

Microeconomics

This course is a comprehensive and engaging profile of Microeconomics and is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept. Graded assessments follow each lesson and an exam concludes each unit.

In this microeconomics course, students will learn all about the basic structure of economics and how it affects world events and the everyday lives of people. Upon completing this course, students will have a better understanding of personal finance, the role and process of taxation and the risks and rewards of investment.

Psychology

This course is designed to provide students with a comprehensive and engaging look at psychology. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn about psychology, including the concepts and tools used to assess intelligence, sensation and perception, memory, motivation and emotion, and learning. At the completion of this course, students will have gained both a knowledge of and appreciation for psychology and how it affects everyone.

Social Studies, *continued*

Sociology

This course is designed to provide students with a comprehensive and engaging look at sociology. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn about sociology, including the concepts and tools used to understand individuality, social structure, inequality, family structure and education, economics and politics, and social change. At the completion of this course, students will have gained both a knowledge of and appreciation for sociology and how it affects everyone.

U.S. Government

Available as Foundation Course!

This stimulating course offers students a comprehensive examination of the U.S. government. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units focuses on a central concept. Students will find graded assessments following each lesson and an exam ends each unit of the course.

Students enrolled in U.S. Government will explore the evolution of American democracy from its birth in the 18th century to the expansive role of the federal, state and local administrations of today. Topics like changes to the Constitution, the function of Supreme Court, the structure of Congress, and the importance of the media are investigated in order to give students a well-supported background of the reasons for and responsibilities of government. The relationship between the political parties and lobbyists is detailed, as well as the processes of monitoring and funding federal elections. Finally, students will learn about the roles of state and local governments and the direct impact these organizations have on our daily lives. At the completion of this course, students will have a knowledge of and appreciation for the workings and history of the US Government and its impact on American Society.

World Geography

This course is designed to illustrate the world's geographical division, the documentation of the land and water masses by topographers and geographers, and the differences between Earth and the other planets in our solar system. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a main concept. Graded assessments follow each lesson and an exam is found at the end of each part of the course.

Not only will the course discuss the world's physical traits, but it also highlights cultural differences between countries. While each country has its different norms, they all contribute to the world's international relations. Studying geography allows students to determine energy usage and how to make the most of our planet without abusing its resources. Each section of World Geography can be examined historically, culturally, physically, and economically, offering students diverse knowledge and understanding of the world.

World History

Available as Foundation Course!

This course provides students with a comprehensive, engaging profile of World History. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central concept. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

This course is organized as a journey through the historical events that have shaped the modern world. The material is organized sequentially, exploring history from 1400 AD to the present day. The course focuses on the leaders of the world's most influential countries and the impact that their decisions and innovation had on the populace. Topics covered include the Renaissance, the French Revolution, the Industrial Revolution, and the World Wars. At the completion of this course, students will be enlightened to the relationship between past historical events and the characteristics of the present-day world.

World Languages

Chinese I

This course is designed to teach students the basics of the Chinese language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Students will start by learning how to pronounce the alphabet and numbers; by the end of the course, students will be able to carry on a conversation in Chinese and will have gained both a knowledge of and appreciation for the Chinese people, Chinese culture, and the Chinese language.

Chinese II

This course is designed to provide students with a comprehensive and engaging profile of the Chinese language, while building upon the content that was learned in Chinese I. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based on a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course is organized as a journey through the different regions of China. Students will be immersed in the language, while learning various cultural aspects of China. The course will provide students with a comprehensive review of Chinese vocabulary and common expressions, while adding to their knowledge by increasing the detail with which they use the language. At the completion of this course, students will have gained both a knowledge of and appreciation for the Chinese language, including the events and people that have impacted its growth.

French I

This course is designed to provide students with a comprehensive and engaging introduction to the French language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Students will start by learning how to pronounce the alphabet and numbers and by the end of the course, students will be able to carry on a conversation in French. At the completion of this course, students will have gained both a knowledge of and appreciation for the French culture and the French language and will have built a foundation for further study of the language.

French II

This course is designed to provide students with a comprehensive and engaging look at the French language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course is organized as a journey through France and other French-speaking countries and regions. This second level French course takes a historical perspective in teaching the language. Students will learn not only about the French language, but they will also learn about famous people who speak the language. At the completion of this course, students will have gained a deeper knowledge of and appreciation for the French culture and the French language.

French III

This course is designed to provide students with a comprehensive and engaging look at the French language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this level three French course, students will take what they have learned in their previous French courses and apply it in conversation. At the completion of this course, students will have built on their previous skills, and will be able to express themselves through conversation in French.

World Languages, *continued*

French IV

This course is designed to provide students with a comprehensive and engaging look at the French language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this level four French course, students will take what they have learned in their previous French courses and put it all together in order to become a Francophone. At the completion of this course, students will have gained the knowledge and skills to speak, read and write in the French language with basic fluency.

German I

This course is designed to provide students with a comprehensive and engaging look at the German language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Students will start off this first level German course by learning how to pronounce the alphabet and numbers, and will end by carrying on a conversation in German. At the completion of this course, students will have gained both a knowledge of and appreciation for the German people and the German language.

German II

This course is designed to provide students with a comprehensive and engaging profile of the German language, while building upon what content was learned in German I. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course is organized as a journey through the German language. Students will be immersed in the language, while learning culture aspects of German speaking countries. The course will provide students with a comprehensive review of German grammar while adding to their knowledge by increasing the detail with which they use the language. At the completion of this course, students will have gained both a knowledge of and appreciation for the German language, including the events and people that have impacted its growth.

Spanish I

Spanish I is a course designed to introduce students to the Spanish language. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Within each unit, fourteen of the lessons present new information including useful vocabulary and grammatical structures, and introduce relevant cultural information. The last lesson of each unit is a review that outlines the major points of the unit and provides additional practice. Each unit builds on the previous, so it is important to complete the course sequentially.

This introductory course provides a solid foundation for students to build proficiency in listening, speaking, reading and writing, and will provide students with basic skills and contextual information for using Spanish in their lives daily, with travel, or in their professions.

Spanish II

This course is designed to provide students with a comprehensive and engaging profile of the Spanish language, while building upon what content was learned in Spanish I. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Students will be immersed in the language, while learning culture aspects of Spanish speaking countries. The course will provide students with a comprehensive review of Spanish grammar while adding to their knowledge by increasing the detail with which they use the language. At the completion of this course, students will have gained both a knowledge of and appreciation for the Spanish language, including the events and people that have impacted its growth.

World Languages, *continued*

Spanish III

This course is designed to provide students with a comprehensive and engaging look at the Spanish language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this level three Spanish course, students will take what they have learned in their previous Spanish courses and apply it in conversation. At the completion of this course, students will have built on their previous skills, and will be able to express themselves through conversation in Spanish.

Spanish IV

This course is designed to provide students with a comprehensive and engaging look at the Spanish language and culture. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this level four Spanish course, students will take what they have learned in their previous Spanish courses and put it all together in order to become a great Spanish speaker. At the completion of this course, students will have gained the knowledge and skills to speak, read and write in the Spanish language with basic fluency.

Chemical Engineering

This course is designed to provide students with a comprehensive and engaging look at chemical engineering. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn the basic concepts used in chemical engineering, including systems of units, the periodic table of the elements, molecules, compounds, bonding, temperature and pressure. Students will learn about chemical systems and reactions, including stoichiometry, open and closed systems, multiple components systems, and chemical reactions. Finally, students will understand gases and gas laws, pressure, systems, energy, and enthalpy. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of chemical engineering and its importance.

Computer Engineering

This course is designed to provide students with a comprehensive and engaging look at computer engineering. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn the basic concepts used in computer engineering, including the basic parts of a computer, how information is quantified, organized and used, and different types of information. Students will learn about information compression and information theory, including different types of coding, the theory of sound, and how sound is converted into a signal. Finally, students will learn about applications of computer engineering, including digital telephones, real-time data transmission, band limits, different types of systems, and information security. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of computer engineering and its importance.

Electrical Engineering

This course is designed to provide students with a comprehensive and engaging look at electrical engineering. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn the basic concepts used in electrical engineering, including an introduction to electricity, circuits, energy, work, power, the components of circuits, and some simple applications of electricity. Students will learn basic circuit concepts, including series and parallel circuits, laws of electricity, and how circuits are used. Finally, students will learn about real life applications of circuits, including everyday items such as on/off switches. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of electrical engineering and its importance.

Fitness

This course is designed to provide students with a comprehensive and engaging look at fitness. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

This course will provide up-to-date information to help students in establishing healthier lifestyles and a better understanding of the close relationship between physical activity, nutrition, and overall health. This course will support and encourage students to develop an individual optimum level of physical fitness, acquire knowledge of physical fitness concepts, and understand the importance of a healthy lifestyle. At the completion of this course, students will have gained both a knowledge of and appreciation for fitness and how it affects everyone.

Health

This course is designed to provide students with a comprehensive and engaging look at health and wellness. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

The course is organized as a journey through health today. Today, the term health no longer means just the absence of illness. Instead, health refers to the overall well-being of your body, your mind, and your relationships with other people. At the completion of this course, students will have gained both a knowledge of and appreciation for health and wellness and how it affects everyone.

HTML

This course is designed to provide students with a comprehensive and engaging look at HyperText Markup Language (HTML). The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will be introduced to HTML and its use in web programming. Students will learn about the basic elements required to build a website, including lists, tables, frames, and other web design elements. Students will learn how to design and use cascading style sheets to enhance a webpage. Finally, students will learn and apply basic web design and layout principles, including testing and publishing a website. At the completion of this course, students will have gained both a knowledge of and appreciation for HTML and its impact.

Introduction to Music Theory

This course is designed to provide students with a comprehensive and engaging look at music theory. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will be immersed into the world of music. They will learn about music theory, including the different types of musical staves. Students will also learn about different notes, scales, and chords. At the completion of this course, students will have gained a knowledge of and appreciation for music theory.

Introduction to Office Applications

This course is designed to provide students with a comprehensive and engaging look at Microsoft® Office. The course is divided into four distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Students will learn the basics of the following Office Applications: Word, Excel®, Access®, and PowerPoint®. Students will learn how to use each application in detail and how to make the applications work for them. At the completion of this course, students will have gained both a knowledge of and appreciation for Microsoft® Office and how they can use these applications.

JAVA™

This course is designed to provide students with a comprehensive and engaging look at JAVA™. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will be introduced to the JAVA™ programming language and its use in programming. Students will learn about the JAVA™ language, how programs work, basic programming tools used to design web applications, and how to write a basic program. Students will learn about arrays, objects, creating behavior with methods, forming an inheritance hierarchy, and designing and creating subclasses and superclasses. Finally, students will apply what they have learned to build user interfaces and use input and output streams to move data. At the completion of this course, students will have gained both a knowledge of and appreciation for the JAVA™ programming language.

Life Skills

This course is designed to provide students with a comprehensive and engaging look at life skills. The course is divided into two distinct parts, each consisting of three, fifteen-lesson units. Each of the units is based around a central theme as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

Life Skills is a comprehensive career-development course for high school students making the transition to life after high school. From maintaining a healthy body and a safe home to finding and keeping a job, this course prepares young adults for a successful life after high school. At the completion of this course, students will have gained both a knowledge of and appreciation for these important life skills.

Mechanical Engineering

This course is designed to provide students with a comprehensive and engaging look at mechanical engineering. The course consists of one part containing three, fifteen-lesson units. Each of the units is based around a central concept as outlined below. Students will find graded assessments after each lesson and an exam at the end of each unit of the course.

In this course, students will learn the basic concepts used in mechanical engineering, including systems of units, vectors, forces, moments, force systems, couples, and equilibrium problems. Students will learn about the methods of joints and sections, define centroids, explain distributed loads, explain center of mass and axes, and state the Pappus-Guldinus theorems. Finally, students will learn about dry friction, beams, cables, load distribution, pressure, and potential energy. At the completion of this course, students will have gained both a knowledge of and appreciation for the field of mechanical engineering and its importance.

eCourses Options & Details

		Course Length			Course Options		
	Course	9-Week	Semester	Year	Prerequisites	Foundation Course*	Diagnostic Available**
English	American Literature (English 11)		✓	✓		✓	
	British Literature (English 12)		✓	✓		✓	
	SAT® Critical Reading & Writing	✓					
	World Literature I (English 9)		✓	✓		✓	
	World Literature II (English 10)		✓	✓		✓	
Mathematics	Algebra I		✓	✓		✓	✓
	Algebra II		✓	✓	Algebra I	✓	✓
	Calculus		✓	✓	Pre-Calculus		✓
	General Math		✓	✓			✓
	Geometry		✓	✓	Algebra I	✓	✓
	Pre-Algebra		✓	✓		✓	✓
	Pre-Calculus		✓	✓	Algebra II		✓
	Probability	✓					
	SAT® Mathematics	✓					
	Statistics	✓					
	Trigonometry		✓		Algebra II		✓
Science	Astronomy	✓	✓				
	Biology		✓	✓		✓	✓
	Biotechnology	✓	✓				
	Chemistry		✓	✓	Algebra I	✓	✓
	Earth Science		✓	✓		✓	✓
	Environmental Science		✓				
	Epidemiology	✓					
	Forensics	✓					
	Genetics	✓					
	Introduction to Technological Sciences	✓					
	Life Science		✓				
	Natural Disasters	✓					
	Physical Science		✓	✓		✓	✓
	Physics		✓	✓	Algebra II		✓
	Science of Computing	✓	✓				
	Sports Medicine	✓					
	Sports Science	✓					
	Superstars of Science	✓					
Stem Cells	✓						

		Course Length			Course Options		
	Course	9-Week	Semester	Year	Prerequisites	Foundation Course*	Diagnostic Available**
Social Studies	American History		✓	✓		✓	✓
	Early American History	✓					
	Macroeconomics		✓				
	Microeconomics		✓				
	Psychology		✓				
	Sociology		✓				
	U.S. Government		✓	✓		✓	✓
	World Geography		✓	✓			✓
	World History		✓	✓		✓	
World Languages	Chinese I		✓	✓			
	Chinese II		✓	✓	Chinese I		
	French I		✓	✓			
	French II		✓	✓	French I		
	French III		✓	✓	French II		
	French IV		✓	✓	French III		
	German I		✓	✓			
	German II		✓	✓	German I		
	Spanish I		✓	✓			
	Spanish II		✓	✓	Spanish I		
	Spanish III		✓	✓	Spanish II		
	Spanish IV		✓	✓	Spanish III		
Electives	Fitness		✓			✓	
	Health		✓			✓	
	HTML	✓				✓	
	Introduction to Music Theory		✓			✓	
	Introduction to Office Applications		✓	✓		✓	
	JAVA™	✓				✓	
	Life Skills		✓			✓	
	Chemical Engineering	✓				✓	
	Computer Engineering	✓				✓	
	Electrical Engineering	✓			Algebra I	✓	
	Mechanical Engineering	✓			Algebra I	✓	

* Foundation eCourses™ are based on a 140-lesson, four-part academic year and are designed to ensure that students master foundational skills and knowledge that are critical building blocks for upper level courses in core academic areas. Foundation eCourses provide a guided learning path and are ideal for high achieving and struggling students alike.

** The diagnostic allows clients to pre-test students' proficiency level against both state and course requirements. Once tested, students may complete only the portions of the curriculum they have not yet mastered.

Learn More

For more information email us at information@edisonlearning.com or call us at **1-877-422-6532** or go to www.edisonlearning.com/ecourses.

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