*Education is not limited to the classroom. It's a lifelong journey.*


# VIRTUAL LEARNING ACADEMY

## COURSE CATALOG

*Cover by VLA Student*

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*5/24/24*

# About the Virtual Learning Academy

## Administration

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## Our History

The Virtual Learning Academy (VLA) opened its “doors” in September 2021. VLA was created to fit a need in the local school communities created by the COVID-19 pandemic. VLA allows students to attend school entirely remotely, at a time when many do not feel comfortable or are unable to safely attend school in-person. VLA serviced two hundred K-12 students during the 2021-2022 school year. One lesson we learned during this school year is that a fully remote option has benefited many students and it will continue to do so in the years to come.

## Program Structure

The Virtual Learning Academy utilizes a mixture of synchronous and asynchronous learning. For the 2024-2025 school year, we intend to offer:

- Daily synchronous live attendance and homeroom
- Daily synchronous live Math 7-8 (and some algebra courses) and 7-11 ELA courses
- Weekly synchronous instructional sessions for Social Studies, Science, English 12, World Language, Health, Art/Music, and Elective Courses
- Weekly synchronous lab time for science students who require lab for Regents
- Synchronous Physical Education classes on an alternate-day schedule
- Asynchronous coursework via Edgenuity and Google Classroom

## Keys for Success

For students to be successful at the Virtual Learning Academy, they must:

- Be independent workers
- Have a strong support system
- Have time management skills (or have support to attain the skills)
- Be able to communicate when they need help
- Have regular attendance

# NYS Diploma Requirements

| Category | Minimum Number of Credits |
|---|---|
| **English / Language Arts** | 4 |
| **Social Studies**<br>Distributed as follows:<br>Global History and Geography (2)<br>U.S. History (1)<br>Participation in Government (0.5)<br>Economics (0.5) | 4 |
| **Science**<br>Distributed as follows:<br>Life Science (1)<br>Physical Science (1)<br>Life Science or Physical Science (1) | 3 |
| **Mathematics** | 3 |
| **World Languages**** | 1 |
| **Visual Art, Music, Dance, and/or Theatre** | 1 |
| **Physical Education** | 2 |
| **Health** | 0.5 |
| **Electives** | 3.5 |
| **Total:** | **22 credits** |

** Students with a disability may be excused from the requirement for 1 unit of credit in World Languages if indicated on the IEP, but must earn 22 units of credit to graduate.

## Regents Diploma Exam Requirements

A score of 65 or better is required on these Regents exams:

- **Comprehensive English**
- **Mathematics** (one of the following: Algebra, Geometry or Algebra 2/Trig)
- **Global History**
- **U.S. History**
- **Science** (one of the following: Living Environment, Earth Science, Chemistry, Physics)
- **Language Other Than English** (LOTE)

# Middle School Courses

| Department | Course | Grade |
|---|---|---|
| **English / Language Arts** | English 7 | 7 |
| | English 8 | 8 |
| **Social Studies** | Social Studies 7 | 7 |
| | Social Studies 8 | 8 |
| **Science** | Life Science | 7 or 8 |
| | Physical Science | 7 or 8 |
| **Math** | Math 7 | 7 |
| | Math 8 | 8 |
| **World Languages** | Spanish 7 | 7 |
| | French 7 | 7 |
| **Art & Music*** | General Art (MS) | 7 and 8 |
| | General Music (MS) | 7 and 8 |
| **Physical Education & Health*** | Physical Education (MS) | 7 and 8 |
| | Health 7 | 7 |
| | Health 8 | 8 |
| **Electives*** | Family and Consumer Science | 7 and 8 |
| | Technology (MS) | 7 and 8 |
| **Other Courses** | Learning Lab | 7 and 8 |
| | Reading Workshop | 7 and 8 |
| | Supervised Study Hall | 7 and 8 |

**Art, Music, Health, and Electives will be offered on a semester basis*

# English / Language Arts

## English 9

**DL209**

English 9 prepares students for the demands of high school reading and writing. Students read and interpret a wide range of text types and media, including short stories, nonfiction, poetry, and drama. Through discussion, collaboration, and frequent writing, students are supported to build on the skills learned in grades 6-8.

**Format:** Daily synchronous (live) sessions

**Full Year | 1 Credit**

**Grade Level:** 9

## English 10

**DL210**

English 10 builds on the reading, writing, and thinking skills from English 9. Students work with literature and nonfiction texts to further explore how central ideas are developed using literary elements and techniques. Emphasis is given to the review of research-based sources to analyze and respond to multiple positions and perspectives.

**Format:** Daily synchronous (live) sessions

**Full Year | 1 Credit**

**Grade Level:** 10

**Prerequisites:** English 9

# English 11

**DL211**

English 11 continues to develop students' skills in analyzing literature and mass media. The fundamentals of the Regents program will be addressed-skills in close-reading, supporting claims with evidence, and analyzing text structures-to prepare students for the Regents Examination in English Language Arts as well as promote college and career readiness.

**Format:** Daily synchronous (live) sessions

**Regents Exam**

**Full Year | 1 Credit**

**Grade Level:** 11

**Prerequisites:** English 10

# English 12 - Senior Composition

**DL212**

Senior Composition is meant to provide foundational writing skills for all seniors whether they plan to attend college or enter the workforce. At the beginning of the semester, students will work on personal narrative writing, including a college application essay. Students will develop and refine an effective writing process of planning, invention, drafting, and revision in an academic context. Students will learn to support their ideas with credible, authoritative information from academic sources and to recognize audience, purpose, and bias. Students will also prepare resumes and learn basic written business communications skills.

***NOTE:*** *Students will also be required to enroll in either Film Studies or Approaches to Literature in Spring or Fall, to earn the full 1.0 credit for English/Language Arts.*

**Fall and Spring Semester | 0.5 Credit**

**Grade Level:** 12

**Prerequisites:** English 11

**Requirements:** Enrollment in Film Studies or Approaches to Literature

## English 12 - Film Studies

**DL212F**

Storytelling is the most common way that we communicate to one another. Stories told with film have a tremendous influence on our attitudes and perceptions of the world around us. In fact, films may be one of the most powerful tools in modern culture for shaping values and conveying information. By viewing, studying, discussing and writing about film, students develop and demonstrate skills in technological, cultural, and media literacy. They also develop critical thinking and problem solving - skills that will serve them well in the real world.

*Seniors are given priority; Juniors may enroll based on teacher approval.*

**Spring Semester | 0.5 Credit**

**Grade Level:** 12 (Juniors may enroll with approval)

## English 12 - Approaches to Literature

**DL212L**

Approaches to Literature provides a comprehensive introduction to the major aspects of literary studies. Students will develop an appreciation and understanding of fiction, nonfiction, drama, and poetry as forms of literary expression. We will explore a variety of genres, including, but not limited to: dystopian literature, historical fiction, science fiction, minority and multicultural literature, postmodern and contemporary literature, and more. Students will hone their critical thinking and analysis skills through reading, writing, and active, Socratic-style discussion. (Dialog between teacher and students that is meant to foster the exploration of beliefs that shape the students' views and opinions). This course is an excellent choice for students planning to attend college, but will also focus on current, real-world applications.

*Seniors are given priority; Juniors may enroll based on teacher approval.*

**Fall Semester | 0.5 Credit**

**Grade Level:** 12 (Juniors may enroll with approval)

# Social Studies

## Global History and Geography I

**DL509**

Global History and Geography I covers the history of Europe, Asia, Africa and Latin America beginning with the Paleolithic Era through the mid-sixteenth century. The course emphasizes the key themes of interactions over time, shifts in political power, the role of belief systems, and the customs and traditions of the people involved.

**Full Year | 1 Credit**

**Grade Level:** 9

**Prerequisites:** None

## Global History and Geography II

**DL510**

Global History and Geography II provides a snapshot of the world circa 1750. The course continues chronologically up to the present. Several concepts are woven throughout the course including industrialization; nationalism; imperialism; conflict; technology; and the interconnectedness of the world.

**Regents Exam**

**Full Year | 1 Credit**

**Grade Level:** 10

**Prerequisites:** Global History and Geography I

## U.S. History and Government

**DL511**

U.S. History and Government covers the time period of British colonialism in America before independence and the constitutional foundations of the United States to the present day. Students explore the expansion of the federal government, the threat of terrorism, and the role of the United States in an increasingly interconnected world. One major goal of the State social studies curriculum, K-11, is for students to learn about the structure and function of governments so they can become informed, committed participants in our democracy.

**Regents Exam**

**Full Year | 1 Credit**

**Grade Level:** 11

**Prerequisites:** Global History and Geography II

## Participation in Government

**DLPIG**

Participation in Government prepares students to be well-informed and responsible American citizens. They will learn about both the rights and responsibilities of citizenship. Students will have the opportunity to become actively involved in the political process as they explore contemporary federal, state and local policy issues. Through these issues, they will learn about the vital roles that citizens play in our democratic system.

**Semester | 0.5 Credit**

**Grade Level:** 12

## Economics

**DLECON**

Economics provides students with the economic knowledge and skills that will enable them to function as well-informed and economically literate citizens in our society and world. Students will learn about the American economic system, their role within that system, and how the United States fits into the broader world economy. The class seeks to strike a balance between personal finance and basic micro- and macro-economics. Topics of study include: economic thinking skills; supply and demand; business structures; monetary and fiscal policies; the stock market; and consumer economics.

**Semester | 0.5 Credit**

**Grade Level:** 12

# Science

## Earth Science

**DL310 | DL310L**

Earth Science is a Regents-level course that encourages students to use scientific processes to investigate their surroundings. Extensive laboratory exercises use the students' life experiences and natural surroundings to help provide a better understanding of the planet Earth and its place in the universe. This course includes: astronomy; geology; climatology; meteorology; mapping and topography; and the history of the earth.

*New York State requires successful completion of twenty hours (1,200 minutes) of laboratory instruction before a student can take the New York State Earth Science Regents examination in June. This 1,200 minutes includes required investigations that will be completed virtually throughout the year.*

**Regents Exam**

**Full Year | 1 Credit | Lab Required**

**Grade Level:** 9 or 10

## Biology

**DL311 | DL311L**

Biology is a Regents-level course that provides a broad, general understanding of the fundamentals of biology and an extension of these understandings in several specific areas. This course includes: the study of life; maintenance in plants and animals; reproduction and development; genetics; evolution; and ecology. Extended areas of study include biochemistry, human physiology, and modern theories of evolution.

*New York State requires successful completion of twenty hours (1,200 minutes) of laboratory instruction and four required state lab experiments before a student can take the New York State Biology Regents examination in June. This 1,200 minutes includes required Science Investigations that will be completed virtually.*

**Regents Exam**

**Full Year | 1 Credit | Lab Required**

**Grade Level:** 9 or 10

# Applied Science I

**DL311A | DL311AL**

Applied Science I is the first year of a two-year Regents course designed for students who have struggled with science in the past despite consistent efforts. Students will spend more time on required concepts including: the nature of science; maintenance in plants and animals; ecology and human impact; skill building; and lab work, including laboratory techniques and experimental design. Students will have the opportunity to complete at least 600 minutes of laboratory exercises to prepare them to take the Biology Regents exam at the end of Year 2.

**Full Year | 1 Credit | Lab Required**

**Grade Level:** 9 or 10

# Applied Science II

**DL311B | DL311BL**

Applied Science II is the second year of a two-year course. Students will take the New York State Biology Regents at the end of this year. This year focuses on core content including: biochemistry; reproduction and development; genetics; evolution; human physiology; and modern theories of evolution; as well as lab experience essential for success on the Biology Regents exam.

*New York State requires successful completion of twenty hours (1,200 minutes) of laboratory instruction before a student can take the New York State Biology Regents examination in June. Lab minutes from Year 1 can be combined with those from Year 2 to achieve the 1,200 minute requirement. This 1,200 minutes includes required Science Investigations that will be completed virtually.*

**Regents Exam**

**Full Year | 1 Credit | Lab Required**

**Grade Level:** 10 or 11

**Prerequisites:** Applied Science I

# Chemistry

**DL312 | DL312L**

Chemistry is a Regents-level course that provides students with a fundamental knowledge of chemistry and chemical processes. This course covers the basic concepts and relationships of chemistry in an engaging and interactive forum. Students will demonstrate understanding, reasoning, and problem-solving abilities as they explore chemistry by inquiry, investigation and group collaboration.

*New York State requires successful completion of twenty hours (1,200 minutes) of laboratory instruction before a student can take the New York State Chemistry Regents examination in June.*

**Regents Exam**

**Full Year | 1 Credit | Lab Required**

**Grade Level:** 11 or 12

**Prerequisites:** Living Environment *and* Algebra I

# Applied Chemistry

**DL312A**

Applied Chemistry is a non-Regents course that provides students with a fundamental knowledge of chemistry and chemical processes. This course covers the basic concepts and relationships of chemistry in an engaging and interactive forum. Students will demonstrate understanding, reasoning, and problem-solving abilities as they explore chemistry by inquiry, investigation and group collaboration.

**Full Year | 1 Credit**

**Grade Level:** 11 or 12

**Prerequisites:** Living Environment *and* Algebra I

## Real World Science

**DL315**

Real World Science is a non-Regents integrated science course in which students learn and experience the science all around them. During this course students will explore everyday science phenomena within the disciplines of Life Science, Earth Science, Chemistry and Physics. The course focuses on activities that can be more hands-on and tied to things that they can observe in the world around them.

**Full Year | 1 Credit**

**Grade Level:** 10, 11, 12

**Prerequisites:** One science Regents

## Forensics I

**DL314A**

Forensics I is the first half of the Forensics course; students are not required to enroll in Forensics II. In this introductory forensics course, students learn about the history of forensics, introduction to forensics and criminalistics, types of evidence, the crime scene, investigative processes, deductive reasoning, eyewitness testimony, the courtroom, social justice programs to help those wrongfully convicted/accused, hair & fiber analyses, fingerprints, and use of DNA analysis in forensic investigations. Throughout the course, students study and analyze real-life case studies using forensic reasoning. Students will complete a culminating project. This course uses project-based learning throughout.

**Fall Semester | 0.5 Credit**

**Grade Level:** 10, 11, 12

**Prerequisites:** One science Regents

# Forensics II

**DL314B**

Forensics II is the second half of the Forensics course; students are not required to complete Forensics I to enroll in Forensics II. In Forensics II, students will study blood spatter, arson, ballistics, death and the human body, toxicology, decomposition, livor/rigor/algor mortis, autopsies, entomology, and forensic anthropology. Students will examine case studies relative to the topics they are studying. Students complete projects related to forensics throughout the semester, including a culminating final project. This course entails project-based learning.

**Spring Semester | 0.5 Credit**

**Grade Level:** 10, 11, 12

**Prerequisites:** One science Regents

# Math

## Algebra I

**DL409**

Algebra I emphasizes algebraic skills and prepares students for the Algebra I Regents exam. Units of study include operations and representing relationships; linear functions; linear equations and inequalities; systems of equations and inequalities; nonlinear functions; exponential functions; polynomial expressions; quadratic functions; quadratic equations; data analysis; and statistics.

**Regents Exam**

**Full Year | 1 Credit**

**Grade Level:** 9 or 10

## Algebra 1A

**DL4091A**

Algebra 1A is the first of a two-year course leading to the New York State Algebra Regents Exam. Topics include properties of real numbers;  exponents; linear and nonlinear functions; linear equations and inequalities; and systems of equations and inequalities.

**Format:** Daily synchronous (live) sessions

**Full Year | 1 Credit**

**Grade Level:** 9 or 10

## Algebra 1B

**DL4091B**

Algebra 1B is the second of a two-year course leading to the New York State Algebra Regents Exam. Topics include real numbers; exponential functions, polynomial expressions; quadratic functions; quadratic equations; data analysis; and statistics.

**Format:** Daily synchronous (live) sessions

**Regents Exam**

**Full Year | 1 Credit**

**Grade Level:** 10 or 11

**Prerequisites:** Algebra IA

## Geometry

**DL410**

Geometry emphasizes an in-depth study of all elements of the Next-Gen Geometry Regents exam. Units of study include: beginning geometric concepts, rigid motions and congruence, Euclidean triangle geometry, constructions, coordinate geometry, quadrilaterals, dilations and similarity, right triangle trigonometry, circle geometry, geometric measurement, and modeling.

**Regents Exam**

**Full Year | 1 Credit**

**Grade Level:** 10 or 11

**Prerequisites:** Algebra I

## Applied Geometry

**DL410A**

Applied Geometry emphasizes an in-depth study of elements of geometry within authentic applications. Units of study may include foundations of Euclidean Geometry; geometric transformations; angles and lines; triangles and congruence; similarity transformations; right triangle relationships and trigonometry; quadrilaterals and coordinate geometry; circles; probability; and geometric modeling.

**Full Year | 1 Credit**

**Grade Level:** 10 or 11

**Prerequisites:** Algebra I

## Algebra II / Trigonometry

**DL411**

Algebra II / Trigonometry is recommended for students who wish to continue their exploration into upper-level mathematics. The course is an in-depth study of all elements of the New York State Algebra 2 Regents Exam. Units of study include relationships between quantities; quadratics and complex numbers; polynomials; rational functions; radical functions; exponential and logarithmic functions; statistics and probability; trigonometric functions; modeling and analysis of functions; and applications of probability.

**Regents Exam**

**Full Year | 1 Credit**

**Grade Level:** 11 or 12

**Prerequisites:** Geometry

## Everyday Math

**DL415**

Everyday Math is designed to explore mathematics through authentic real-world applications. Topics may include DIY home design; travel; personal finance; time management; sports performance analysis; cooking; landscaping; small business math; and game design.

**Full Year | 1 credit**

**Grade Level:** 10, 11, 12

## Personal Finance

**DL414PF**

Personal Finance is designed to develop the skills and knowledge necessary to enable students to manage their personal financial affairs more effectively and to make informed consumer decisions. Topics include: learning how to budget finances; saving, spending, and investing money; banking services; real estate transactions; and income taxes.

**Fall Semester | 0.5 Credit**

**Grade Level:** 10, 11, 12

## Career and Financial Management

**DL414CF**

Career and Financial Management is designed to give students the knowledge needed to plan their career and promote financial literacy among young adults. Students will gain an understanding of and develop the skills and knowledge needed to be successful in a rapidly changing world. Students will explore emerging workplace trends and develop employment skills, including resume writing and interviewing. Topics include preparing for work, career planning, skills for success and managing your money.

**Spring Semester | 0.5 Credit**

**Grade Level:** 10, 11, 12

# World Languages

## Spanish I

**DLSPAN1**

Spanish I is an introductory-level course in which students begin their journey of the study of Spanish language and Spanish-speaking cultures. Students will engage in listening, speaking, reading, and writing in Spanish. They will leave the course with a basic understanding of vocabulary, culture, and basic communication skills in the present tense.

**Proficiency Exam Required**

**Full Year | 1 Credit**

**Grade Level:** 9, 10, 11, 12

## Spanish II

**DLSPAN2**

In Spanish II, students continue their work with the Spanish language. Through the use of listening, speaking, reading, and writing skills, students will grow their understanding and use of the Spanish language and Spanish-speaking cultures in the present and past tenses.

**Full Year | 1 Credit**

**Grade Level:** 10, 11, 12

**Prerequisites:** Spanish I

## Spanish III

**DLSPAN3**

Spanish III is designed for highly motivated students who want to be challenged with the curriculum, as there is an increasing emphasis on advanced grammar, speaking, writing, and reading. Students will be predominantly taught in Spanish. This course assumes that the students have completed a Level II course and are at a novice to low level of proficiency. Spanish III is designed to encourage growth and the ability to learn independently. Students will be able to speak and write in multiple tenses including the present, past, and future.

**Full Year | 1 Credit**

**Grade Level:** 11 or 12

**Prerequisites:** Spanish II

# French I

**DLFR1**

French I is an introductory-level course in which students begin their journey of the study of the French language and French-speaking cultures. Students will engage in listening, speaking, reading, and writing in French. They will leave the course with a basic understanding of French vocabulary, culture, and basic communication skills.

**Proficiency Exam Required**

**Full Year | 1 Credit**

**Grade Level:** 9, 10, 11, 12

**Prerequisites:** French 7

# French II

**DLFR2**

In French II, students continue their work with the French language. Through the use of listening, speaking, reading, and writing skills, students will grow their understanding and use of the French language and French-speaking cultures. At this level, students will become more comfortable speaking to others about a variety of topics.

**Full Year | 1 Credit**

**Grade Level:** 10, 11, 12

**Prerequisites:** French I

# French III

**DLFR3**

French III is designed for highly motivated students who want to be challenged with the curriculum, as there is an increasing emphasis on advanced grammar, speaking, writing, and reading. Students will be predominantly taught in French. It assumes that the students have completed a Level II course and are at a novice to low level of proficiency. French III is designed to encourage growth and the ability to learn independently.

**Full Year | 1 Credit**

**Grade Level:** 11 or 12

**Prerequisites:** French II

# Art & Music

## Studio in Media Arts

**DLARTMED**

Studio in Media Arts focuses on the fundamentals of media production and is designed for the student who is interested in using technology as an artistic medium. Potential processes include but are not limited to: mixed media and digital photography; graphic design; video production; and animation. This course will also include discussion of media awareness.

**Full Year | 1 Credit**

**Grade Level:** 9, 10, 11, 12

## Digital Photography

**DLPHOTO**

Digital Photography is designed to be an in-depth exploration into the world of photography. In this course, students will investigate the history of photography and practice various digital photography techniques.

**Spring Semester | 0.5 Credit**

**Grade Level:** 10, 11, 12

## Intro to CAD

**DLCAD**

VLA CAD is a half-year introductory course in which students will be introduced to the basics of Technical Drawing and CAD software. Areas to be covered include Orthographic Projection, and Pictorial Drawings. Utilizing cloud-based CAD software the fundamentals of 2D drawing and dimensioning will be taught along with basic 3D modeling operations and tools. 3D printing and slicing software may also be covered if time allows. This course continues many of the same concepts from MS Technology.

**Spring Semester | 0.5 Credit**

**Grade Level:** 9, 10, 11, 12

## Music Appreciation

**DLMUSA**

In Music Appreciation, students will learn about a variety of musical topics and how music impacts the world around us. We will study the science of sound, basic elements of music, intro to music theory, and careers in music. We will learn about the role music has on contemporary culture, the effect it has on our economy and why we are drawn to certain genres of music.

**Fall Semester | 0.5 Credit**

**Grade Level:** 9, 10, 11, 12

## World Music

**DLMUSW**

World Music will begin by studying the roots of Western music. We will start during the Medieval era and work our way through the Renaissance, Baroque, and Classical periods all the way to the Romantic Era. In the second half of this course we will study significant characteristics of music in Asia, Africa, Latin America, and the Middle East. During this course students will learn about: impactful composers, a variety of instruments, and important historical moments in music history.

**Spring Semester | 0.5 Credit**

**Grade Level:** 9, 10, 11, 12

# Physical Education & Health

## Physical Education

**DLPEHS**

The physical education department within the BT Boces Virtual Learning Academy, in accordance with the recommendations of the New York State Association for Health, Physical Education, Recreation, and Dance (NYSAHPERD), has designed a unique high school curriculum. The Virtual Learning Academy Physical Education program is dedicated to promoting lifetime fitness and physical activity, and enhancing personal fitness, health and wellness for all students. To that end, the focus of this curriculum is to help all students become informed, independent decision-makers capable of planning for a lifetime of fitness and physical activity while achieving their personal fitness and sport activity goals. The objectives of the curriculum are to assist students to achieve the following standards:

New York State Standards – The physically literate individual…

*Standard 1*: Demonstrates competency in a variety of motor skills and movement patterns.

*Standard 2*: Applies knowledge of concepts, principles, strategies, and tactics related to movement and performance.

*Standard 3*: Demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.

*Standard 4*: Exhibits responsible personal and social behavior that respects self and others.

*Standard 5*: Recognizes the value of physical activity for overall wellness, enjoyment, challenge, and/or self-expression.

*Standard 6*: Recognizes career opportunities and manages personal and community resources related to physical activity and fitness to achieve and maintain overall wellness.

**Full Year | 0.5 Credit**

**Grade Level:** 9, 10, 11, 12

## Sports History in the Western World

**DLPESH**

For thousands of years, sports have developed through countless historical perspectives… In this course, students will be provided with an understanding of how sport represents values, attitudes and beliefs of a given society, similar to art, music and literature. Sports history in the Western World provides a unique perspective of the relationship between sports and the social, economic and political forces that have molded it over time not only in the United States, but the world. This course will focus on the evolution of sports through various time periods ranging from Greece, Rome and the Middle Ages, to the Industrial Revolution, the Olympics and leading up to current events in the 21st Century.

Topics to be covered in Sports in the Western World, but are not limited to: Amateur Wrestling, American Football, Baseball, Basketball, BMX, Bobsledding, Boxing, Cricket, Cross Country, Curling, Golf, Greek and Roman Sports, Hockey, Karate, Mixed Martial Arts, NASCAR, Olympic Games, Powerlifting, Skateboarding, Soccer, Swimming and Diving, Tennis, Title IX, Ultimate Frisbee, Volleyball and Winter Sports (Snowboarding, Skiing, etc.)

**Spring Semester | 0.5 Credit**

**Grade Level:** 9, 10, 11, 12

## Health

**DLHEALHS**

High School Health will introduce students to more complex concepts of overall health and wellness. The course will focus on life skills specific to health education and the promotion of a healthy lifestyle. The major purpose of the course is to increase health literacy, 21st Century Skills (strategy and information that will help them to maintain their own health or the health of those around them), and improve student outcomes in regard to obesity, improved mental health and life expectancy. This course will utilize standard skills in authentic, real-world situations for personal and community growth.

**Fall and Spring Semester | 0.5 Credit**

**Grade Level:** 10, 11, 12

# Electives

*Electives will be offered based on need.*

## Child Development

**DLCDEV**

Child Development serves as an excellent first glance into the development and care of a child. Students will learn how parents and childcare providers can meet a child's needs to promote healthy growth and development. This class focuses on how a child develops from conception to 6 years of age. Students will come out of this course with a better knowledge of the effort and time it takes to raise a child and best practices for raising healthy, thriving children. There will also be a component of Early Childhood Education, focusing on preschool through first-grade education.

**Health Elective**

**Full Year | 1 Credit**

**Grade Level:** 11, 12

## Introduction to Psychology

**DLPSYCH**

This course will introduce students to the concepts, theories, historical research, and application of these constructs in the field of psychology. Students will develop an understanding of the scientific method, tolerance for opposing viewpoints, and an appreciation for the individual and the world. The course is set up to assist students in evaluating sources, questioning ideas, developing informed opinions, and communicating these ideas and opinions in both oral and written manner. Students will improve their time management, conflict resolution, stress management, and problem solving.

**Social Studies Elective**

**Fall Semester | 0.5 Credit**

**Grade Level:** 11, 12

## Other Electives:

- **Forensics I** *(see Science section for description)*
- **Forensics II** *(see Science section for description)*
- **Personal Finance** *(see Math section for description)*
- **Career and Financial Management** *(see Math section for description)*

- **Digital Photography** *(see Art & Music section for description)*
- **Introduction to CAD** ***(****see Art & Music section for description)*
- **Music Appreciation** *(see Art & Music section for description)*
- **World Music** *(see Art & Music section for description)*
- **Sports History in the Western World** *(see Physical Education section for description)*

# Other Course Opportunities

## Credit Recovery Courses

Credit Recovery courses are offered as needed. Courses offered include:

- English 9 CR
- English 10 CR
- English 11 CR
- Global History and Geography I CR
- Global History and Geography II CR
- U.S. History and Government CR

## Special Education

The Virtual Learning Academy is committed to providing IEP support for students who need it. For the 2024-2025 school year we will offer the following:

- Direct Consultant Teacher (DCT) to provide assistance within the 7-12 English, 7-8 Math courses, and Algebra 1A and 1B. Amount of time and days will be determined based on IEP.
    - **NOTE: DCT services will be billed in addition to the base seat cost.**
- Indirect Consultant Teacher (ICT) to provide additional IEP support and consultation provided by special education teachers to the general education teacher that supports any adjustment to the learning environment that is needed to meet individual student needs.

*Services will be determined based on need. Other Special Education services – such as speech therapy and counseling – will be provided by the home district.*

# TC3 Dual-Credit – Online High School Elective Courses

These accelerated courses are offered via a partnership between Broome-Tioga BOCES and Tompkins-Cortland Community College (TC3) through their CollegeNow Program. The courses are available for juniors and seniors. Students taking these courses through VLA will receive dual credit. Final courses provided will be based on student enrollment.

| **Fall 2024** (September – January) | **Spring 2025** (February – June) |
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| Financial Accounting (full year)<br>Introductory Astronomy<br>Principles of Human Anatomy & Physiology<br>Computer Science I<br>Introduction to Engineering Graphics<br>Environmental Science<br>Personal Health<br>Precalculus Math<br>Introduction to Statistics<br>Calculus II<br>Introduction to Sociology<br>Academic Writing I | Principles of Marketing<br>Principles of Human Anatomy & Physiology II<br>Web Page Design<br>Computer Science II<br>Architectural Drafting I<br>Intro to Early Childhood Education<br>Public Speaking<br>Technology & the Environment<br>First Aid & Safety Education<br>Introductory Meteorology<br>Introduction to Psychology<br>American National Gov. |

**Fall 2024**

**Environmental Science** | ENVS 101 | 3 college/.5 highschool credits
Instructor: Mr. Mark Pellegrino

This course explores the biological dimensions of natural-resource management issues. A basic introduction to evolutionary and ecological principles helps support discussions of topics such as human population dynamics, human health and toxicology, wildlife biology and management, food production, pest control, and maintenance of biodiversity. Both local and global issues are addressed.

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**Computer Science I** | CSCI 160 | 3 college/.5 highschool credits
Instructor: TBD

This course introduces students to computer programming as a discipline to solve problems and process information. Topics include computer memory, variables, data types, algorithms, decisions, repetition, files, arrays and modules using a common programming language such as Python, Java, or C++. Students may not apply credit for both CIS 108 and CSCI 160 toward degree requirements.

*Prerequisites: Prior completion of, or concurrent enrollment in, MATH 120 or MATH 122, or three years of high school math including Algebra II.*

**Introduction to Engineering Graphics** | DRAF 107 | 2 college/.5 highschool credits
Instructor: Mr. Arthur Cass

This course introduces students to the graphical "language of the engineer," and is designed for students planning to enter an engineering-related field. Students explore graphical communication through freehand sketching and 3-D modeling using SolidWorks. The course emphasizes drafting standards in the creation of multi-view and pictorial drawings, and incorporates dimensioning and tolerances.

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**Financial  Accounting** | ACCT 101 | 4 college/.5 highschool credits
NOTE: **This course will run the full year**, with credit awarded in Spring 2025
Instructor: Mr. Matthew Loveless

This course introduces basic accounting concepts and principles for the sole proprietorship and partnerships with an emphasis on the accounting cycle and the preparation of financial statements along with their supporting schedules. Emphasis is also placed on the use of special journals, subsidiary ledgers, and valuation accounts.

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**Introduction to Statistics** | MATH 200 | 3 college/.5 highschool credits
Instructor: Mr. Mark Marino

This course is a study of the application of statistical procedures to the analysis of experimental data. Topics covered include methods for presentation of data; measures of center, dispersion and position; sampling techniques; elementary probability; hypothesis testing and confidence intervals for both one and two populations; and linear correlation and regression. Use of the binomial, normal, student's T and chi-square distributions are also covered. Technology such as a graphing calculator or Excel is required.

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**Introduction to Sociology** I SOCI 101 I 3 college/.5 highschool credits

Instructor: Ms. Amber Hardy
This is an introductory study of the basic concepts, theoretical principles, and methods used within the discipline of sociology. Emphasis is on group interaction, social and cultural processes, and the structure and organization of American social institutions. SOCI 101 fulfills the SUNY General Education Social Sciences requirement.

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**Intro to Astronomy** I ASTR 101 I 3 college/.5 highschool credits
Instructor: Mr. Kyle Verspoor
This course is a general study of the fundamental principles of astronomy. Topics include the motions of the earth, members of the solar system, stars, galaxies, and universe. ASTR 101 fulfills the SUNY General Education Natural Sciences requirement but is not a laboratory science course. Students do not need a background in science or mathematics to take this course.

**Personal Health** I HLTH 206 I 3 college/.5 highschool credits
Instructor: Mrs. Kelly Breward
This course isolates some of the most perplexing health-related problems and provides opinions, data, and facts to help students make decisions to optimize their personal health. Topics include: promoting healthier behavior and change, psychosocial health, managing stress, violence and abuse, human sexuality, nutrition, weight management, personal fitness, addictions and addictive behavior, alcohol, tobacco, caffeine, illicit drugs, cardiovascular disease, cancer, infectious diseases, sexually-transmitted infections, non-infectious conditions, healthy aging, environmental health, consumerism, and complementary and alternative medicine.

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**Precalculus Mathematics** I MATH 138 I 4 college/.5 highschool credits
Instructor: Mrs. Kathleen Bushey
This course provides the algebraic foundation from a function standpoint for a standard calculus course. Topics include: theory of functions and radicals, right triangle trigonometry, analytic trigonometry, law of sines, law of cosines, trigonometry with applications, vectors, polar coordinates, binomial theorem and conic sections.

*Prerequisites: HS Alg 2 Trig*

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**Calculus II** I MATH 202 I 4 college/.5 highschool credits
Instructor: TBD
This course is a continuation of Calculus I. Topics include: slope fields, applications of separable differential equations, area between two curves, volumes of revolution, arc-length, work, advanced integration techniques (parts, trig integrals, trig substitution, and partial fractions), L'Hopital's Rule, improper integrals, infinite series, parametric equations, and polar coordinates. Use of a graphing calculator is required. MATH 202 fulfills the SUNY General Education Mathematics (and Quantitative Reasoning) Knowledge and Skills area.
*Prerequisites: C or better grade in MATH 201 (calculus)*

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**Principles of Human Anatomy & Physiology** I BIOL 131 I 4 college/.5 highschool credits
Instructor: TBD
Students are introduced to the basic organization of the human body, basic biochemistry involved in physiological interactions, basics of tissue organization, and histology. In addition, the course surveys the integumentary, skeletal, muscular and nervous systems of the human body. BIOL 131 fulfills the SUNY General Education Natural Sciences requirement.
*Prerequisites: Recent (within the last five years) NYS Regents exam in biology and chemistry (passed with an 80% grade or better) or a C or better in BIOL 104 or a C or better CHEM 101 and BIOL 101. MATH 095 or MATH 098, RDNG 116, and ENGL 100 if required by placement testing. 4 Cr.*

**Academic Writing I** I ENGL 100 I  3 college/.5 highschool credits
Instructor TBD

Students learn how to write a variety of essays, usually in response to readings. They review grammar and basic writing skills, learn an effective writing process, begin to engage and respond to academic texts, and are introduced to research and documentation of sources appropriate for introductory-level college essays. Special sections may center on a theme. Students must earn a grade of C or better to take the second course in the sequence, ENGL101. ENGL 100 fulfills the SUNY General Education Basic Communication Requirement.

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**Spring 2025**

**Technology and the Environment** | ENVS 102 | 3 college/.5 highschool credits
Instructor: Mr. Mark Pellegrino

This course examines the technological aspects of resource problems. Topics include air and water pollution, traditional and alternative energy sources, climate change, and management of non-renewable resources. Technical and economic constraints are considered, along with alternatives for future development. Local and global issues are addressed.

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**Computer Science II** | CSCI 165 | 3 college/.5 highschool credits
Instructor: TBD

This is an introductory computer science course covering problem-solving, algorithm development, and object oriented design in a modern programming language such as Java, Python, or C++. Specific topics include objects, methods, data structures, classes, abstraction, encapsulation, inheritance, polymorphism, and exception handling. Applications are from a variety of areas.

*Prerequisites: CSCI 160*

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**Architectural Drafting I** I DRAF 117 I 3 college/.5 highschool credits

Instructor: TBD

The course is intended to introduce and develop proficiency in basic drafting techniques used in building and construction drawing. In addition, related light construction principles are introduced. Using AutoCad, the student creates building plans, sections and details. Note: The course no longer includes any manual instrument drawing and it is not an architectural "design" course.

**Introductory Meteorology** I METR 101 I 3 college/.5 highschool credits

Instructor: TBD

This course is a study of the weather around us. Topics include the structure of the atmosphere, heat balance of the earth, air masses, circulations, fronts, cyclones, severe weather, climate and climate change. The laboratory will emphasize mathematical calculations for atmospheric physics and processes, gathering meteorological data, analysis of weather systems, and short-term weather forecasting. METR 101 fulfills the SUNY General Education Natural Sciences Knowledge and Skills Area and is a laboratory science.

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**Public Speaking** I ENGL 201 I 3 college/.5 highschool credits

Instructor:TBD

Public speaking is designed for students from any discipline at any level to improve skills for speeches and oral presentations. Analyzing and adapting to different audiences, purposes, and situations is required. A primary focus of the course will be selecting and organizing information into effective and ethical speeches while using available technology to enhance presentations. The course offers an opportunity for practice and discussion of the role of research, civility and diversity in public discourse, and delivery strategies. ENGL 201 fulfills the SUNY General Education Basic Communication requirement for oral skills and can be used as a Liberal Arts, Humanities, or Unrestricted Elective in any program. *This course may require a limited number of live sessions for presentations.*

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**First Aid & Safety Education** I HLTH 205 I 3 college/.5 highschool credits

Instructor: TBD

This is a study of the typical injuries, illnesses, and emergency situations received in the workplace, recreation, home and community, as well as the corresponding first aid skills needed to manage those emergencies until Emergency Medical Services (EMS) personnel arrive. This course emphasizes ways to prevent such scenarios and helps students confront their fears of stepping forward to provide assistance. The corresponding American Red Cross certificate(s) in CPR and First Aid are awarded for additional fee upon satisfactory completion of the requirements.

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**Principles of Marketing** I BUAD 204 I 3 college/.5 highschool credits

Instructor: TBD

Introduces students to the basic principles of marketing as they relate to modern day business. The course is centered on the four Ps: product, place, promotion, and price. Case problems and current marketing situations are utilized in discussing marketing concepts. In addition, projects are assigned to allow the student to explore various marketing situations.

**Web Page Design** I CAPS I 152 1 college/.5 highschool credits

Instructor: TBD

This course is an introduction to the development of web pages for the Internet. Topics include HyperText Markup Language (HTML), Cascading Style Sheets (CSS), and Extensible HyperText Markup Language (XHTML), including links, graphics, backgrounds, and colors.

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**American National Government** I POSC 103 I 3 college/.5 highschool credits

Instructor: TBD

An examination of the essentials of the American constitutional system, the function of political parties, the concept of the federal system, the role of administrative agencies, the methods by which foreign affairs are conducted, and the manners in which conflicting ideals are resolved in a democratic system. POSC 103 fulfills the SUNY General Education Social Sciences requirement.

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**Introduction to Early Childhood Education** I ECHD 125 I  3 college/.5 highschool credits

Instructor: TBD

This course focuses on the functioning of the total child, stressing the importance of early childhood education in a diverse society. Emphasis is placed upon the need to understand child growth and development, developmentally appropriate practices, positive guidance, and the importance of working with families. The students use observational worksheets in natural settings. Educational philosophy, legislation, public policy concerning the young child, and an overview of child care services are also discussed. The NYS (New York State) Common Core standards will be discussed. ***Students will be required to spend 20 hours of observation and participation in an early childhood setting throughout the semester***

* Partnership with district elementary school required, more information will be provided

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**Introduction to Psychology** I PSYC 103 I 3 college/.5 highschool credits

Instructor: TBD

This course provides students with a basic understanding of the scientific study of mental processes and behavior. Prevalent psychological theories and research will be introduced. Topics may include: psychological research, biology and behavior, sensation, perception, learning, memory, cognition, development, emotion, motivation, personality, mental disorders, therapy and social psychology.

**Principles of Human Anatomy & Physiology** I BIOL 132 I 4 college/.5 highschool credits
Instructor: TBD
This is a continuation of BIOL 131, which is a prerequisite for 132. Topics covered include the endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital systems. BIOL 132 fulfills the SUNY General Education Natural Sciences requirement.
*Prerequisites: C or better in BIOL 131*