



2021-2022 DRYDEN HIGH SCHOOL COURSE GUIDE

OUR MISSION

*Educate and empower each learner
to achieve excellence and build a better world.*

2021 - 2022
Catalog of Courses
CEEB CODE 331655

Dryden High School
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Dear Students, Parents, and/or Guardians:

This course guide will serve as a resource for students as well as parents in the crucial planning of course selection. One will find important information such as graduation requirements, all course offerings and Regents mandates. Parental involvement is imperative for the student to reach maximum success during the high school experience.

Counselors are available to assist each student and parent in educational and career planning. Planning well will translate into the optimum educational experience for your child.

All electives are subject to staff and funding availability. All courses must have a minimum number of students requesting it, in order for any course to be offered. To adequately address this “unknown factor”, students will choose a first course and an alternate course during their scheduling meeting with their counselor.

Thank you for your continued support and involvement in your child's education.

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New York State Diploma Requirements

Diploma Types: Local Diploma, Regents Diploma, Regents Diploma with Advanced Designation

Subject Area	Minimum Number of Credits
English	4
Social Studies Global History & Geography (2) U.S. History (1) Participation in Government (1/2) Economics (1/2)	4
Science Life Science (1) Physical Science (1) Life or Physical Science (1)	3
Mathematics	3
Languages Other than English (LOTE)	1 ¹
Visual Arts/Music	1
Physical Education (each semester)	2
Health	.5
Electives	3.5
Total	22

¹Students with a disability may be excused from this requirement if stated on their IEP

Examination Requirements

Local Diploma Minimum of 55	Regents Diploma Minimum of 65	Regents with Advanced Designation Minimum of 65
English Language Arts (ELA)	English Language Arts (ELA)	English Language Arts (ELA)
Social Studies (1)	Social Studies (1)	Global Hist & Geography and US History & Government
Math (1)	Math (1)	Algebra I, Geometry and Algebra II
Science (1)	Science (1)	Living Environment and a Physical Science (Earth, Chemistry or Physics)
Pathway (1) ²	Pathway (1) ²	Checkpoint B LOTE Exam`

Regents with Advanced Designation Diploma requires 2 additional credits in LOTE, or a 5 unit sequence in the Arts or CTE (BOCES campus or our Business, Finance, Computer Program). The Regents chart above is the Traditional Pathway Testing combination for the Advanced Designation, but there are additional assessment options available as well.

²Pathway Options- all students must pass 4 required Regents exams. In addition, all students must choose ONE of the following options: CDOS credential or one additional math, science, or social studies Regents or an approved CTE assessment.

WEIGHTED RANK

Dryden High School weighs each student's class rank. What this means is, if a student takes a college-level, concurrent credit course, an Advanced Placement course, an Honors level course or participates in a New Visions Program, then their rank will be weighted according to the following weight factor criteria:

- College-level, concurrent credit courses weighted at 1.1
- Advanced Placement courses weighted at 1.1
- New Visions courses weighted at 1.1
- Honors courses weighted at 1.05

This weighted system benefits those students who accept the additional challenges of advanced level coursework. Please note that the GPA is not weighted, only the class rank. Please see our most up-to-date courses listed below. If your child is interested in these courses, please be sure to contact your child's counselor.

SPECIALIZED PROGRAMMING OPTIONS

**THESE COURSES MAY NOT BE OFFERED EVERY YEAR SO PLEASE
WORK WITH YOUR COUNSELOR TO PLAN AHEAD**

College-Level, Concurrent Credit Courses

- Technical Math 122
- College Algebra 120
- PreCalculus 138
- Calculus 201
- Algebra II
- English 101
- English 102
- Biology 104
- Biology 105
- Physics 104
- Physics 105
- Env Science 101
- Astronomy 101
- Public Speaking
- Computer Applications
- Intro to Microsoft Office
- Business Math
- INVEST in Business I & II
- College/Career Prep I & II
- Yearbook
- Career & Financial Mgt
- Business Law
- Personal Health
- Health & Fitness

Honors Courses

- English 9 Honors
- English 10 Honors
- English 11 Honors
- Earth Science Honors
- Algebra I Honors
- Algebra II Honors

AP Courses

- Adv Video Prod
- Graphic Design
- Photography
- Ceramics B
- Drawing/Painting
- Spanish 3
- Spanish 4
- Spanish 5
- Chemistry 101
- Chemistry 102
- Aerobic Conditioning
- AP Euro History
- AP US Hist & Gov't
- AP Studio Art 2D/3D
- Add'l AP Courses offered online

New Visions Courses

- Health/Medical Sciences*
- Life Sciences*
- Engineering*

***New Visions programs include credit in English, Economics, Government and two additional Science credits.**

AP Course Offerings for 2021-2022

Disclaimer:

The College Board has created a process of Auditing all Advance Placement Courses across the country. Each new teacher assigned an AP course at Dryden High School is required to submit the appropriate documentation required by College Board for approval of each course they teach. The College Board wants to ensure that AP courses across the country have the same curricular and resource guidelines. There is no guarantee that all courses will be approved as an AP course. Only approved courses can carry AP Credit designation to be recorded on the High School Transcript for each student. Enrolled students will be eligible for course credit regardless.

Dryden High School AP Course offerings:

- AP European History – 1 credit
- AP United States History – 1 credit
- AP Studio Art 2D – 1 credit
- AP Studio Art 3D – 1 credit

Students are responsible for AP Testing Fees (approximately \$95)
See your counselor for Fee Waiver eligibility

TST BOCES 2021-22 Virtual AP Course Offerings

AP Art History – Grade 12

The AP Art History course is a yearlong survey of art and architecture across centuries, cultures, and styles. In this course students will cover art and architecture created from the Ancient World to the 20th Century and beyond. They will develop an appreciation and understanding of art and architecture using these seven key concepts: Identification and Attribution, Visual Analysis, Contextual Analysis, Finding Meaning, Interdisciplinary Awareness, Reading Skills, and Writing Skills. By using these concepts, students will be able to identify works of art, artists, and styles.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

1 credit

AP Calculus AB – Grade 12

Students in this course will walk in the footsteps of Newton and Leibnitz. An interactive course framework combines with the exciting on-line course delivery to make calculus an adventure. The course includes a study of limits, continuity, differentiation, and integration of algebraic, trigonometric, and transcendental functions, and the applications of derivatives and integrals.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

Required Materials: Graphing calculator

Pre-requisites: Algebra 1, Geometry, Algebra II, Pre-Calculus or Trigonometry/Analytical Geometry

1 credit

AP Computer Science A – Grades 11 – 12

The AP® Computer Science A course is equivalent to the first semester of a college level computer science course. The course involves developing the skills to write programs or part of programs to correctly solve specific problems. AP® Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

Technology Requirements: Students must have access to a computer system that represents relatively recent technology (PIII). Schools need to have Java and Bluj software already installed on a designated machine(s) before the course starts and enough memory in their lab machines (128 MB) so that students will be able to compile and run Java and BluJ programs efficiently.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

Pre-requisites: Algebra I is required. Algebra II is highly recommended. Prior coding experience is highly recommended. An online preparation course is highly recommended and that is Introduction to Computer Science.

1 credit

AP English Language and Composition – Grades 11 – 12

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The

college composition course for which the AP English Language and Composition course substitutes is one of the most varied in the curriculum.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

Pre-Requisites: Teacher recommendation, English I, II (honors), with a B+ average
1 credit

AP English Literature and Composition – Grade 12

Engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

Textbook Requirement: Students obtain reading material through school and local library

Pre-requisite: Junior English
1 credit

AP Human Geography – Grades 11 – 12

Explore the patterns and processes that impact the way humans understand, use, and change Earth's surface. Geographic models, methods, and tools help you examine the effect that human social organization and interconnections have on our world.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

1 credit

AP Macroeconomics – Grades 11 – 12

This course places particular emphasis on the study of national income and price-level determination, and also familiarizes students with economic performance measures, the financial sector, stabilization policies, economic growth and international economics. Solid math and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

1 credit

AP Microeconomics – Grades 11 – 12

This course is designed to give students a thorough understanding of the principles of economics that apply to the function of individual decision-makers, both consumers and producers, within larger economic systems. It places primary emphasis on the nature and function of product markets. It also examines factor markets and the role of government in promoting greater efficiency and equity in the economy. Solid math and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

1 credit

AP Music Theory – Grades 11 – 12

The Music Theory course is the study of melody, harmony, texture, rhythm, form, musical analysis, elementary composition and, to some extent, history and style. Skills in musical dictation and listening, sight-singing, and basic keyboard harmony are an important part of the AP theory course.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

Pre-requisite: Students should have a minimum of three years of past musical study, (piano, instrumental, vocal or composition) and an ability to identify note names, perform basic rhythmic figures and identify keys.

1 credit

AP Psychology – Grades 11 – 12

AP Psychology is a college-level course providing students with an overview of the development of human behaviors and thoughts. Along with preparation for the AP Psychology exam, the goals of this course are to immerse students in modern psychological investigation techniques, to accentuate the ethics and morality of human and animal research, and to emphasize scientific critical thinking skills in application to the social sciences. Psychology is a diverse social and biological science with multiple perspectives and interpretations. The primary emphasis of this course is to help students develop an understanding of concepts rather than memorize terms and technical details; the ultimate goal is to prepare students to successfully take the AP Psychology examination offered in May.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

1 credit

AP Statistics – Grade 12

Advanced Placement Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics introduced include the exploratory analysis of data and numerical techniques to study patterns, methods of valid data collection, probability as the tool for anticipating what distributions of data should look like, and confirming models through statistical inference.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

Pre-requisites: Algebra I & II

1 credit

AP United States Government and Politics – Grade 12

This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

1 credit

AP World History – Grades 11 – 12

Structured around the investigation of five course themes and 19 key concepts in six different chronological periods, from approximately 8000 B.C.E. to the present. Provides a clear framework of six chronological periods viewed through the lens of related key concepts and course themes, accompanied by a set of skills that clearly define what it means to think historically.

AP Exam: Exam fees are to be paid by the student or by school district. The individual school district orders the exam on behalf of the student and administers it.

1 credit

ADDITIONAL PROGRAMS

PLATO

PLATO courses at Dryden High School are mainly a credit recovery program but can be used for credit accrual to assist our students in graduating in a timely manner. PLATO provides self-paced online instruction for high school students that is individualized instruction, meets state and national standards. It can be utilized in any number of educational applications including academic intervention services, credit accrual, dropout prevention, summer school, and credit recovery. Courses available are core courses in Math, English, Science, and Social Studies. Teacher or Counselor recommended students only.

READING

Reading class is a course designed to improve literacy skills. Better reading and writing skills will help a student work more quickly and effectively in school. Also, improved reading skills will help a student later in work and personal life. Students' programs are personalized to meet each individual's needs as much as possible. Ongoing goals include reading comprehension (being able to understand what you read), reading fluency (reading out loud effectively), vocabulary, writing, and spelling. The program is arranged in several different types of activities. Among other things students will gather to work as a whole group, work individually on leveled software, meet in small groups to work on reading and writing skills, and also to read independently.

½ - 1 credit

5-Credit Visual Art Sequence For Advanced Designation Diploma

Below are suggestions to course selection and planning your Art sequence by grade level. You may take any combination of classes as long as prerequisites or foundation classes are met.

Option I
9th Grade: Studio in Art (1 credit)
10th Grade: 1 Art Class (1 credit)
11th Grade: 1 Art Class (1 credit)
12th Grade: 2 Art Classes (2 credits)
Total: 5 credits in Art

Option II
9th Grade: Media Arts (1 credit) or Studio in Crafts (1 credit)
10th Grade: Studio in Art (1 credit)
11th Grade: 1 Art Class (1 credit)
12th Grade: 2 Art Classes (2 credits)
Total: 5 credits in Art

Option I: Strongly recommended for those considering going to Art Colleges and Universities

The visual arts offer a wide variety of 21 transferable and marketable skills that are creative and versatile, regardless of what field is pursued after high school. The Dryden High School Art Department offers support for those considering an art based career field including; architecture, graphic design, interior design, landscape architecture, fashion design, medical illustration, package & product design, animation, video & game design, industrial design, surface pattern design, book design & illustration, cartooning, metal & jewelry design, photojournalism, cinematography, culinary arts, film & video production, fine arts and art education. Assistance in portfolio development is integrated within each class.

Option I maximizes your portfolio development potential!

Student Art Sequence NYS Regents Graduation Requirements:
➤ 5 Credits of Art must be successfully accomplished by 12th grade.
➤ Students are required to maintain a digital portfolio and will be required to submit digital portfolio documentation in June of their Senior year to demonstrate competency in Art sequence coursework.
➤ The final digital portfolio shall consist of at least 15-20 works overall representative of student's best 3-5 works from each class, with a minimum of 4 demonstrating competency in observational drawing skills.

ART FOUNDATION COURSES

These courses fulfill the one credit Art/Music requirement.

STUDIO IN ART – Grades 9 – 12

Studio in Art students are introduced to the fundamentals of artistic expression. The course includes experiences in drawing, painting, two-and three-dimensional design, and sculpture. The course emphasizes observation and interpretation of the visual environment, visual communication, imagination, and symbolism through an introduction to various visual arts media. The focus of this comprehensive course is the study of how artists convey ideas through application of a variety of media, and the study of historical and contemporary art and artists from a worldwide perspective. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Option in 5 Credit Advanced Designation Diploma Sequence **OR** an Elective

This course fulfills one unit Art/Music requirement.

1 credit

STUDIO IN CRAFTS – Grades 9 – 12

Studio in Crafts is a yearlong foundations course. This course helps students apply form and structure to the materials and accompanying aesthetics of crafts through a survey of a wide range of craft forms; some possibilities include textile design, clay work, metal work, papermaking, jewelry work, glass work or mosaics. The focus of this comprehensive course is communication of ideas and application of form and structure through diverse media, and the study of historical and contemporary art and artists from a worldwide perspective. Connections are also made in our local community as we focus on recycling and using found objects and unconventional materials. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Option in 5 Credit Advanced Designation Diploma Sequence **OR** an Elective

This course fulfills one unit Art/Music requirement.

1 credit

DIGITAL & MEDIA ARTS – Grades 9 – 12

Digital and Media Arts is a yearlong foundations course that explores traditional media as well as new media. This course introduces students to the creative and conceptual aspects of media arts production, including a range of techniques, genres and styles, mediums, and forms; such as moving image, sound, spatial, and interactive design. Topics may include development of ideas, synthesis of visual and sound components, production and presentation. Focus is on development of ideas and application of form and structure through application of a variety of media, and the study of historical and contemporary art and artists from a worldwide perspective. Students develop media literacy and an understanding of balancing freedom and responsibility as they analyze and create media artworks. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Option in 5 Credit Advanced Designation Diploma Sequence **OR** an Elective

This course fulfills one unit Art/Music requirement.

1 credit / 1 TC3 credit (COMM 111 pending approval)

ART MAJOR (SEQUENCE) COURSES

These courses may be taken in any sequence once the foundations class or prerequisite has been successfully completed.

(These courses do not meet the graduation requirements for one credit of Art/Music)

STUDIO IN SCULPTURE A & B – Grades 10 – 12 (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

Sculpture courses promote expression of ideas through three-dimensional works. Students explore representational and abstract sculpture through subtractive (carving), additive (modeling), and assemblage techniques in one or more media. Materials to be explored may include resistant materials: glass, plaster, stone, wood and metal, as well as, plastic materials: clay, plasticine, paris craft, wire, papier mache, fabric and fibers. Students are introduced to basic techniques in low and high-relief work (Ex: Glass Fusion, Stained Glass, Clay Reliefs... etc.), mask making, figure sculpture, installation/site specific sculpture, assemblage, and mixed media constructions. A study of historical and contemporary sculpture and sculptors from a worldwide perspective, and instruction and practice in the critique process are addressed. Students interested in sculpture, ceramics, industrial design, architecture, interior design, special effects or set design may be interested in this course. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Prerequisite: Sculpture A is a prerequisite for Sculpture B.

Option in 5 Credit Advanced Designation Diploma Sequence **OR** an Elective

This course assists with A.P. Studio Art 3-D Design and Portfolio development.

½ - 1 credit

ADVANCED DRAWING & PAINTING – Grades 11 – 12 (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

Students will expand skills acquired in Drawing and Painting with strong emphasis on observational skills. Students will explore new mediums and techniques while focusing on compositional elements of design and strengthening problem solving skills. Opportunities will be given to students for experimentation of specific mediums as well as subject matter more in depth as development of personal style evolves throughout the course. Contemporary trends in art will be integrated within the course to enrich student knowledge and awareness. Weekly artist research assignments will assist in development of student style and awareness of trends. Students will create and build upon the previous year's portfolio. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Prerequisite: Drawing & Painting (ART 115)

Option in 5 Credit Advanced Designation Diploma Sequence.

This course assists in the development of an AP Studio Art 2-D and Drawing Portfolio

1 credit

ADVANCED STUDIO IN PHOTOGRAPHY: DARKROOM – Grades 10 – 12

This course is designed for Art sequence students in grades 11 and 12. It is a full-year advanced-level photography course emphasizing traditional 35mm black and white darkroom development. Students will explore the full potential of the 35mm camera (Auto, Manual Setting, ISO, Shutter Speed, F-Stop, Long Exposures...etc.), as well as accurately exposing and developing film. Students will also have opportunities to experiment with alternative photographic processes such as pinhole cameras (camera obscuras), photograms, sun printing, tintypes, liquid emulsion, polaroid lifts & transfers... etc. This course is recommended for those students who are interested in pursuing a degree in photography and/or communications, and for those who wish to further explore a wide variety of visual art techniques to develop an art portfolio. A survey of the work of both traditional and contemporary photographers and printmakers, as well as craftsmanship, visual composition, communication of ideas, proper use of equipment, and an overview of photographic history will create a solid foundation upon which students can develop new techniques and ideas. Upon successful completion of this course students will be familiar with materials and processes of traditional darkroom photography. Students are expected to participate in publishing their work, through in-school and community exhibitions, and in submitting their work to various photographic competitions. Work that is created throughout each semester will be combined to strengthen their portfolio development. Note: An adjustable 35mm camera is required. While students are encouraged to use their own 35mm camera, a limited number of 35mm cameras are available to sign-out. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Prerequisite: Studio in Photography (ART 106)

Option in 5 Credit Advanced Designation Diploma Sequence OR an Elective.

This course assists in the development of an AP 2D Design portfolio.

1 credit

FLASH ANIMATION – Grades 11 – 12

Flash Animation is a computer-based art course designed to teach basic concepts of using the Macromedia Flash software. It is designed as part of the New Media Sequence for the visual arts. Students will learn to apply their knowledge of the elements and principles of art through the creation of short animated pieces. Students will learn sequential storytelling and storyboarding in addition to basic understanding of how to manipulate the software. Students interested in film, editing, creative writing, television graphics, web animations, gaming, web page design, graphic design, advertising and other interactive media will enjoy this course. Additional software may include Adobe AfterEffects, Photoshop and Premiere. Students will maintain a digital portfolio as a final exam to meet NYS Learning Standards. Through this course, students will strengthen their visual literacy and ability to communicate through visual means.

Option in 5 Credit in Advanced Designation Diploma Sequence **OR** an Elective

½ credit

**COLLEGE CREDITS FROM SUNY TC3 FOR CONCURRENT ENROLLMENT
- ART COURSES AVAILABLE TO STUDENTS -**

ART COURSE	High School Credit	TC3 Credit*
Advanced Video Production COMM 115	1	3
Painting ART 115	1	3
Graphic Design ART 117	1	3
Ceramics A & B ART 130	1	3
Studio in Photography ART 106*	1	3
	Total College Credits	15

***College credits from SUNY TC3 for Concurrent Enrollment in the above art classes available to students earning 85% or higher for each marking period.**

CERAMICS A & B (ART 130) – Grades 10 – 12

In Ceramics A, students will learn basic skills and technical knowledge of traditional hand building methods: pinched forms, coil and slab construction and wheel throwing and will use a range of surface decoration and firing techniques. Students must successfully complete A before continuing in B. Students taking A in one year and B in another year must have approval from instructor.

In Ceramics B, students will apply the knowledge and skills gained in Ceramics A. Students are expected to demonstrate growth in problem solving, controlling the properties of clay to develop complex forms, strengthening artistic expression and critical thinking.

In Both A & B, historical and contemporary trends in ceramics are studied through research and in-class presentations. Students are expected to express themselves through visual, verbal and written formats. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards. Students interested in a career in ceramics, industrial design, architecture, sculpture, or set design may begin building a portfolio for continuing study in the arts. Students taking Ceramics A in one year & B in another year must have prior approval from the instructor.

Prerequisite: Ceramics A is a prerequisite for Ceramics B

Option in 5 Credit Advanced Designation Diploma Sequence **OR** an Elective

This course assists in the development of an AP 3D portfolio.

½ - 1 credit/3 TC3 credits (ART 130) when taken with Ceramics A

DRAWING & PAINTING (ART 115) – Grades 10 – 12

This course is designed for all students that desire to improve upon their skill set. Students in their first year of Drawing and Painting will work from direct observation of the figure, still-life, landscape and architectural forms. Review with emphasis and understanding of design principles, form, color theory, critical thinking, and problem solving. These concepts will be introduced and illustrated throughout the course by the exposure and analysis of movements across cultures and art history. A variety of drawing and painting techniques and media experimentation, including pencil, ink, charcoal, pastel, acrylic, collage, watercolor, oil paint and mixed media will be covered. It is recommended that students take this course prior to taking Graphic Design (TC3 ART 117). The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards. This class will help with portfolio development and career and college readiness.

Option in 5 Credit Advanced Designation Diploma Sequence.

This course assists with Advanced Drawing & Painting and A.P. Studio Art 2-D or Drawing.

1 credit/ 3 TC3 credits (Art 115)

GRAPHIC DESIGN (ART 117) – Grades 10 – 12

Graphic Design is the art of visual communication through two-dimensional works. Students considering a career in the design fields such as advertising, game design, presentation design, packaging design, magazine layout, corporate design, motion graphics, animation, or web design should enroll in this course. Students will apply their knowledge of the elements and principles of design to strengthen their visual literacy. We will explore a range of design techniques using various media and software programs and study the design work of contemporary and historical designers. Possible projects include symbol development/logo design, page layout design, animation, motion graphics, and web design. We incorporate new technologies and ideas into the curriculum as changes develop in the field. Students will also explore applications for learning coding, and digital languages (such as html and java script) as they apply to their work. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards. Written, visual and research-based journal assignments are given regularly as independent work. Students are expected to strengthen their verbal, written and visual communication based deeply in the elements and principles of design.

Option in 5 Credit Advanced Designation Diploma Sequence **OR** an Elective.

This course assists in the development of an AP 2D Design portfolio.

1 credit / 3 TC3 credits (ART 117- Design for Electronic Media)

INTRODUCTION TO VIDEO PRODUCTION – Grades 10 – 12

In this semester elective course students will study video as a visual art. Students will learn how to operate a video camera and equipment, and they will learn how to create and edit videos, using Adobe Premiere CC, Audition and AfterEffects software. Students will write process papers on their own productions and engage in verbal critiques of their work as well as provide feedback to their classmates. Some of the projects covered during the semester are as follows: group projects, autobiography, stop motion animation, and documentary. Students will also study lighting and sound design, screenplay writing and storyboarding. Students interested in video, television, animation, gaming, graphic design, advertising, creative writing, journalism and photography will enjoy this class. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Option in 5 Credit Advanced Designation Diploma Sequence **OR** Independent Art Elective **OR** Senior English course option.

(This course does **NOT** meet the graduation requirements for one unit of Art/Music or NCAA English credit requirement.)

½ credit (with Advanced Video Production in the same year, 3 TC3 credits COMM 115)

ADVANCED VIDEO PRODUCTION – Grades 10 – 12

This is a semester course open to students who have successfully completed the Introduction to Video Production course. Students will apply the concepts learned in the introductory course to develop their own body of work. Students will decide on the focus of the body of work based on personal interests and on consultations with the course instructors and classmates. Students will write their own scripts or literary adaptations to drive their storytelling. Students will continue to advance editing skills through Adobe Premiere CC, Audition and AfterEffects. Students will also explore options for showcasing and exhibiting their work through competitions and festivals. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards.

Art Credit Prerequisite: Introduction to Video Production

Option in 5 Credit Advanced Designation Diploma Sequence

OR Independent Art Elective **OR** Senior English course option

½ credit / 3 TC3 credits (COMM 115) when taken in the same year with Introduction to Video Production

STUDIO IN PHOTOGRAPHY (ART 106) – Grades 10 – 12

This course is designed for Art sequence students in grades 10, 11 and 12. It is a full-year introductory-level photography course emphasizing photojournalism/storytelling photography as well as exploring a variety of approaches to materials and techniques in the making of prints or multiple images. Students will explore the full potential of the digital camera (Manual Setting; ISO; Shutter Speed; F-Stop; Long Exposures... etc.), as well as the following digital programs: Adobe Photoshop; Bridge and Camera Raw to replicate traditional darkroom techniques. This course is recommended for those students who are interested in pursuing a degree in communications, and for those who wish to further explore a wide variety of visual art techniques to develop an art portfolio. Upon successful completion of this course students will be familiar with materials and processes of photography, printmaking, as well as photojournalistic concerns. This course emphasizes the ethics in copyright infringement laws. A survey of the work of both traditional and contemporary photojournalists, photographers and printmakers and basic guidelines for creating well-designed images, captions and layouts will create a solid foundation upon which students can develop new techniques and ideas. Students are expected to participate in publishing their work, through in-school and community exhibitions, and in submitting their work to various photographic competitions. The creation of a digital art portfolio is required to meet Art Department and NYS Learning Standards. This class will help with portfolio development and career and college readiness.

Option in 5 Credit Advanced Designation Diploma Sequence **OR** an Elective.
This course assists with A.P. Studio Art 2-D Design (Photography) and Portfolio development.

1 credit/ 3 TC3 credits (ART 106)

ADVANCED PLACEMENT STUDIO ART (2-D DESIGN, DRAWING, 3-D DESIGN) – Grade 12

These college credit courses are designed for the highly motivated and self-directed student willing to accept the challenge of a rigorous academic curriculum. This course demands significant commitment.

****AP Art courses serve as humanities credits in liberal arts colleges****

AP 2-D DESIGN OR AP DRAWING

The student will spend a yearlong quest of one subject (concentration) of focus with an in-depth approach through media exploration and technique. Development of individual student 'voice' should be clearly evident in original works created. A minimum of **20 original works** will be completed by April. Motivated students will also create a variety of pieces exhibiting experiences in the formal, technical and expressive means available to show expertise and exploration. Students will be responsible for weekly sketchbook entries and artist research. A portfolio of digital images and a body of work will be evaluated at the culmination of the study. The student will submit digital images of work completed through an online digital portfolio account beginning in January until the May exam. Five actual works of art will be matted and submitted to a review for scoring in

early May. Each student will receive a score of 1-5 based on the course curriculum and how successful the finished work is. Six summer assignments will be expected, it is the students' responsibility to secure materials and list from the teacher prior to the beginning of the summer. Students will be prepared the first day of class with completed assignments that will be included in the first marking period.

AP 2-D Design OR Drawing Prerequisite: Studio Art and Drawing & Painting or recommendation by Art Dept.

AP 2-D Photography Prerequisite: None; teacher consultation (Photography recommended)

AP 3-D DESIGN

The AP 3-D Design course offers the opportunity to explore in-depth sculptural issues of form and space culminating in an AP Studio 3-D Design Portfolio having quality, concentration, and breadth development. The AP 3-D Design students must have taken one full year or more of Sculpture or Ceramics following the foundation level Studio in Art course to be enrolled. Each student's best work from previous coursework must be saved for possible inclusion in his or her AP 3-D Design Portfolio. **18 3-Dimensional pieces** minimum are required to complete the Quality, Concentration and Breadth, sections of the portfolio. The student will input images of work, as completed, for their AP 3-D Design portfolio through an online account beginning in January until the May exam, when the portfolio will be digitally submitted for review by the AP College Board for scoring. All works explored require thoughtful, focused and informed decision-making in the fundamental, functional use of the elements of art and principles of design. Students will demonstrate their understanding of the relationship between intent and content in 3-D Design solutions with an increased awareness of composition: formal design, expressive qualities, conceptual ideas, concerns related to form and space (i.e. issues of scale, presentation, or environmental placement) and technical considerations as they make informed decisions in the 3-D Design process. Summer assignments will be expected. It is the students' responsibility to secure materials and list from the teacher prior to the beginning of the summer. Students will be prepared the first day of class with completed assignments.

Prerequisite: Studio Art & Sculpture OR Ceramics

Option in 5 Credit Advanced Designation Diploma Sequence

1 credit/3 College Credits

Associated Fees:

Approximately \$95.00 fee for exam, financial assistance available for those in need.
\$10.00 CD for digital storage, if electing to digitally submit 3-D AP portfolio in May.

BUSINESS, FINANCE, & COMPUTER PROGRAM

BUSINESS MAJORS

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

BUSINESS CORE

Introduction to Computers/Business Communications
 Career & Financial Management
 Computer Applications/Entrepreneurship

5-UNIT CTE SEQUENCE

Business Core (3 courses listed above)
+ 2 Additional Business Courses

Career & Technical Education (CTE) NYSED Certified (5 credits)

Students completing a sequence of not less than 5 credits in CTE (Career and Technical Education) may substitute the additional 2 credits of LOTE to achieve the Regents Diploma with Advanced Designation.

Business Course	High School Credit	TC3 Credit Option*
Introduction to Microsoft Office/Business Communications	1	2
Career & Financial Management	1	3
Computer Applications & Entrepreneurship	1	5
College & Career Prep I	1	4
College & Career Prep II	1	1
INVEST/Risk Management I	1	6
INVEST/Risk Management II	1	1
Business Math	1	3
Yearbook & Computer Publications	1	1
Total College Credits Possible		26

BUSINESS, FINANCE, & COMPUTER PROGRAM

College credits from SUNY TC3 for Concurrent Enrollment in Business, Finance, & Computer courses available to students earning 85% or higher each marking period.

CORE COURSES

INTRODUCTION TO MICROSOFT OFFICE/BUSINESS COMMUNICATIONS – Grades 9 – 12

Learn to key by touch—no need to look for the keys you want! Create and edit papers quickly and easily using Microsoft Word. Just think: No more, “It won’t do what I want!” “Where did it go?” “What happened?” Know how to apply communications theory to business and daily life. Increase keyboarding speed and accuracy to help you with school, college, and employment. Properly format letters, memos, essays, reports, resumes and professional e-mails. Practice verbal and non-verbal communication skills. Develop basic abilities with Microsoft Word, Excel and PowerPoint. **Introduction to Microsoft Office/Business Communications is a required course for all Business, Finance, & Computer majors.**

1 credit / 2 TC3 credits (CAPS 100, CAPS 111)

CAREER AND FINANCIAL MANAGEMENT – Grades 9 – 12

Acquire knowledge to make, save and invest your money. Learn about career opportunities, budgeting your money, car and home buying, and filing income taxes. Complete job shadows at local businesses and host business professionals. Participate in interesting hands-on activities and projects that help you learn including working in the Lion’s Den School Store. Completion of or current enrollment in Introduction to Computers/Business Communications is recommended. **Career and Financial Management is a required course for all Business, Finance, & Computer majors.**

1 credit / 3 TC3 credits (BUAD 109)

COMPUTER APPLICATIONS & ENTREPRENEURSHIP – Grades 10 – 12

Gain intermediate to advanced skills in Microsoft Word, Excel, Access, and Publisher. Format spreadsheets, databases and business documents. Design storyboards, certificates, flyers, brochures. Produce your own business plan complete with “green” components, calling card, brochure, and financial statements; share your proposed plan with business professionals. Host guest presenters. Participate in an entrepreneurship seminar and tour a local financial institution. Completion of or current enrollment in Introduction to Computers/Business Communications and Career & Financial Management are a plus. **Computer Applications & Entrepreneurship is a required course for all Business, Finance, & Computer majors.**

1 credit / 5 TC3 credits (CAPS 121, CAPS 131, BUAD 103)

BUSINESS MAJOR (SEQUENCE) COURSES

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

BUSINESS MATH – Grades 11 – 12

Experience how math can be applied in your daily life to help you handle money wisely so you avoid common financial problems. Learn math for payroll, taxes, mortgages, loans, credit cards, sales, marketing, banking, investing, and services. Practice the math you will continue to use throughout your life. **Schedule Business Math as the third unit of math required for graduation or as a Business elective. Prerequisite: Algebra I and Geometry.**

1 credit / 3 TC3 credits (BUAD 222)

COLLEGE & CAREER PREP I & II – Grades 11 – 12

Take control of your future and prepare for college and employment. Become college knowledgeable through research, establishing your criteria, and personal interviews with college students. Develop a college resume, write a college essay, compile a college portfolio, and create a college budget. Find and apply for scholarships, learn about financial aid, qualify for a local scholarship. Network with college and business professionals. Apply professional etiquette. Enhance communication skills. Participate in college and career seminars, guest presentations, and the year-end award ceremony. *Second year students have higher expectations and more leadership responsibilities.* **Introduction to Microsoft Office/Business Communications is highly recommended along with initiative, commitment, and eagerness to participate in activities.**

1-2 credits or 2 DHS credits with Approved Work Site Component / 4 TC3 credits (ACAD 150, CAPS 141)

INVEST I & II – Grades 10 – 12

Invest in yourself to experience the world of business. Meet CEO's, COO's, VP's and Managers of local businesses and host their visits. Interact with business experts through class presentations, business tours, job shadowing, paid internships, "mock" job interviews, and more. Participate in events with students from area INVEST programs. Attend a "real" insurance conference, network with business professionals, enjoy a luncheon, and listen to well-known keynote speakers like the host of CNN's Cross-Fire, the Ragin' Cajun—James Carville, the winner of Dancing with the Stars—JR Martinez, and Terry Bradshaw of the Pittsburgh Steelers. Qualify for local scholarships (\$100-\$1,000) and apply for National INVEST scholarships (\$500-\$5,000). Plan and host the INVEST Award Ceremony; receive National INVEST certification. Show your readiness for college and the world of work. *Second year students have higher expectations and more leadership responsibilities.* **Introduction to Microsoft Office/Business Communications is highly recommended along with initiative and eagerness to participate in activities.**

1-2 credits or 2 DHS credits with Approved Work Site Component / 6 TC3 credits (BUAD 203, BUAD 208)

YEARBOOK AND COMPUTER PUBLICATIONS – Grades 11 – 12

Create, plan, and produce the Dryden High School yearbook. Learn about theme creation, photography, Photoshop editing, and layout design. Use high-tech digital cameras, scanners, and online software programs. Utilize sales techniques, interpersonal skills, file organization, accurate record keeping, and time management skills. Plan and host the yearbook distribution event. *Second year students have higher expectations and more leadership responsibilities.*

Completion of Introduction to Microsoft Office/Business Communications a plus.

1-2 credits / 1 TC3 credit (CAPS 100)

MARKETING

Apply marketing concepts and event management skills to plan, organize, and run school events. Compete against classmates to create, promote and sell your product. Design advertising campaigns including flyers, brochures, audio and video commercials. Explore consumer behaviors, conduct market research, and identify target markets. Learn how businesses apply “green” marketing in their campaigns. Create a marketing strategy for a sport and/or entertainment school function(s). Host guest speakers from the local sports and entertainment fields. Promote the Lion’s Den school store.

1 credit

ACCOUNTING I – Grades 11 – 12

Learn the bookkeeping level of day-to-day business records for both service and merchandising businesses. Topics include the basic accounting cycle and financial statements. Through the use of simulations and independent projects, gain an awareness of personal financial responsibility and an appreciation for accuracy in record keeping. Participate in computerized accounting projects. The culminating project includes a simulated activity. Accounting provides practical applications for many careers and personal use and is a great foundation for continued accounting study at the post-secondary level.

1 credit

BUSINESS LAW – Grades 11 – 12

Gain knowledge about the basic principles of law including contracts, consumer issues, insurance, negotiable instruments, wills, torts, landlord-tenant, and court procedures. Emphasis is on contract law and the importance of citizen rights and responsibilities. A mock trial experience maybe included. Analyze cases, do a variety of legal projects, field trips, and guest speakers.

1 credit / 3 TC3 credits (BUAD 201)

ENGLISH

ENGLISH 9

The English 9 course is built upon reading from the major genres: short stories, novels, drama, poetry, and non-fiction. Some goals for the class are 1) expanding vocabulary skills; 2) discussing readings in depth; and 3) writing with insight, accuracy, and clarity. Grammar is reviewed and reinforced. A research paper/project is introduced. The New York State Regents exam is comprehensive and given in the junior year. This course is aligned with the New York State Common Core Learning Standards and introduces Common Core Regents preparation.

1 credit

ENGLISH 9 HONORS

English 9 Honors is aligned with the New York State Common Core Learning Standards and designed for the student with a strong interest in reading, writing, and speaking. The class covers much of the material presented in English 9 in more depth. In addition, the class explores other challenging books and topics. Readings will include short stories, novels, drama, poetry, and nonfiction. Some goals for the class are 1) fostering a love of reading literature and non-fiction; 2) expanding vocabulary skills; 3) discussing readings in depth; 4) writing with insight, accuracy, and clarity; 5) using and citing research materials; 6) speaking comfortably in front of a classroom; and 7) using creativity in writing and projects.

Prerequisite: Students must have an average of 85% or higher in ELA 8, score a 3 or 4 on the ELA State test, and obtain a teacher recommendation to select this course. Students must complete summer reading project and maintain an 85% or higher average to remain in the course.

1 credit

ENGLISH 10

English 10 is a survey course of British Literature, fiction, nonfiction, and poetry from its origins in *Beowulf* to the 20th century. Emphasis is placed upon interpretation and analysis skills, spelling and vocabulary, as well as expository writing. A research paper is required. This course is aligned with the New York State Common Core Learning Standards and continues Common Core Regents preparation from English 9.

1 credit

ENGLISH 10 HONORS

This course is for students who want to go beyond the requirements of the regular English 10 course in British literature. Students will study all of the British literature in the regular curriculum, and they will also read more complex texts and nonfictions. Like the regular English 10, there is a mandatory research paper. The vocabulary accompanying the course is advanced. Overall, this course is taught at a faster rate; the instructor delves into texts with more depth. English 10 Honors is aligned with the New York State Common Core Learning Standards and prepares students for English 11 Honors, and the ELA Common Core Regents.

Prerequisite: Students who have an 85% or higher in English 9 or 9H and who obtain a teacher recommendation may select this course. Students must complete summer reading project and maintain an 85% or higher average to remain in the course.

1 credit

ENGLISH 11

American Literature is the focus of this course. Students read a variety of American novels, stories, poems, and other works. Both American classics and modern popular works are taught. Emphasis is placed upon reading comprehension and analytical skills, listening skills, spelling and vocabulary, and expository writing. Instruction also focuses on skills needed for the New York State English Language Arts Common Core Regents Exam, which is given in January and June. This course is aligned with the New York State Common Core Learning Standards and builds upon skills learned in grades 9 and 10. A research paper is required.

1 credit

ENGLISH 11 HONORS

This program is an intensive course in analysis of American Literature. Students write from literature and from personal experience. Students are expected to read from a list of classic novels throughout the year in addition to regularly assigned literature from an anthology. Opportunities for public speaking and problem solving are provided. A research paper is required. Instruction focuses on skills needed for the New York State Common Core Regents Exam, which is given in January and June. This course is aligned with the New York State English Language Arts Common Core Learning Standards and builds upon skills learned in grades 9 and 10.

Prerequisite: Students must have an average of 85% or higher in English 10 or 10H and obtain a teacher recommendation to select this course. Students must turn in summer reading project on the first day of school and maintain an 85% average or higher to remain in this course.

1 credit

SENIOR LEVEL ENGLISH COURSES

MYTHOLOGY I

Students will study Greek, Roman, Norse, and Egyptian mythology, creation myths from around the world, the hero's quest, legends, and modern mythology. We will discuss similarities among myths and evaluate modern adaptations of myths. Students will be required to complete an extended research paper using MLA documentation, several essays, and group and individual projects.

½ credit

MYTHOLOGY II

Students will study North and South American, Indian, and Asian mythology, creation myths from around the world, the hero's quest, legends, and modern mythology. We will discuss similarities among myths and evaluate modern adaptations of myths. Students will be required to complete an extended research paper using MLA documentation, several essays, and group and individual projects.

½ credit

CREATIVE WRITING

Students will write poetry, fiction, song, autobiography, and drama. We will work on developing right-brained, imagistic thinking. Each student is encouraged to explore different genres, but he/she will be allowed to develop his/her own strengths in a chosen genre. Journal writing is a requirement. Students will publish a class magazine of writings.

½ credit

COMMUNICATION

This course is designed to connect communicative theory with practice. We will explore different aspects of effective communication including sending messages and active listening. We will study communication as a process, analyzing various situations, and completing a number of projects. Topics include, but are not limited to: interpersonal communication, non-verbal communication, body language, listening, small group communication and public speaking.

½ credit

DRAMA

The elective in Drama will include selections such as *Antigone*, *Importance of Being Earnest* and films such as *Catch me if you Can*, *North by Northwest*, *Arsenic and Old Lace* and *Wait Until Dark*. It will strengthen and enhance skills in ensemble work/teamwork, movement, voice, scene and play analysis, scene work including an emphasis on character development and emotional truth, improvisational skills, character analysis and performance. The course will also include performance as well as independent script writing.

½ credit

ENGLISH 12

English 12 is a yearlong survey course of world literature and basic composition skills. Students will read a variety of short stories, novels, poems, non-fiction pieces from across the globe, covering some of the most important authors and writings from ancient times to the present. Additionally, students will develop writing skills for both college and the work force. Throughout the year, we will work on a variety of expository essays in addition to research methods and MLA documentation, culminating in a research paper.

1 credit

PUBLIC SPEAKING/PUBLIC COMMUNICATION

This semester course provides an opportunity for high school students to earn 3 college credits from TC-3 while they are still in high school. This course is designed to introduce students to the art of public speaking and to help them become more effective communicators. We will cover introductory, informative, persuasive, special occasion and impromptu speeches, with the potential for more if time allows. Students will discover how to research, organize, and prepare information for a variety of communicative purposes. Focus is on performance and analysis. Students must maintain at least a 75% average to earn college credit.

½ credit / 3 TC3 college credits

MASS MEDIA NOT OFFERED IN 2021 – 2022 FOR ENGLISH CREDIT

This course is designed to analyze mass media and the influence of media on our lives. We will explore social networking, pod casting, magazine and newspaper journalism, power point presentations and multi-media news production. Our thoughts, feelings, society and culture are all affected by mass media.

This course does not meet the NCAA English requirement.

½ credit

YOUNG ADULT LITERATURE

Students will read and study the genre known as YA and take a closer look at how the world looks to the teenage narrator. The course will revolve around the reading of YA novels focused on teen issues such as identity, mental health, and relationships as well as YA's take on other popular genres such as the science fiction subgenre of the dystopian novel and fantasy through the use of folklore and mythology. Taking on a book club model, students will work in small groups, often reading different titles related to an overall theme or focus. Students will write several essays, participate in class discussions, give presentations, and complete projects to add depth to their understanding of the topics studied.

½ credit

*Please note that YA novels incorporate real life moments. As adults we hope students never have to experience some of the more damaging realities presented in these novels, but this would be naive. Just as in real life, the teenagers in these novels sometimes engage in risky behaviors like drinking and substance abuse, make bad choices, use bad language, succumb to peer pressure, have sexual relationships, and are the victims of abuse; therefore, it is imperative that teen readers have the opportunity to explore such situations safely and vicariously. Censoring YA literature lessens the impact these titles can have on the reader and the discussions that will hopefully spring from reading them.

ENGLISH 101 – Academic Writing II (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

This semester course provides an opportunity for high school students to earn 3 college credits from TC-3 while they are still in high school. **Students must possess superior English skills to succeed in this course as it is writing intensive.** The course is centered on the study of the rhetorical modes of writing: definition, process, narration, description, compare/contrast, cause/effect, and argumentation. Context for assignments, which may be centered on a certain theme, is provided by scholarly readings. Mastering the standard forms of the language is another focal point of the course. Students will write a number of short, researched essays, and one extended research paper using MLA documentation. Students need a final course average of 75 in order to receive transferable TC3 college credit.

Prerequisite: Student must score at least an 85 on the English Language Arts Common Core Regents Exam and have an English 11 final course grade of at least 85. Additionally, students must be recommended by their English 11 teacher and have completed the summer reading assignment upon arrival in September.

½ credit / 3 TC3 college credits

**ENGLISH 102 – Approaches to Literature
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)**

Unlike English 101, which focuses on nonfiction from a variety of disciplines, English 102 focuses on literature as a fine art. Students will analyze novels, short stories, drama, and poetry from world literature. While there is an emphasis on modern literature, this course is still writing intensive. Students write analytical essays discussing various techniques that writers employ in the pieces of literature studied. Students will write a number of short, researched essays, and one extended research paper using MLA documentation. Students need a final course average of 75 in order to receive transferable TC3 college credit.

Prerequisite for this course is English 101 with a minimum final average of 75.

½ credit / 3 TC3 college credits

NOT OFFERED IN 2021 – 2022 FOR ENGLISH CREDIT

INTRODUCTION TO VIDEO PRODUCTION – Grade 12

In this semester elective course, juniors and seniors will study video as a visual art. Students will learn how to operate a video camera, and they will learn how to create and how to edit videos. Students will write process papers on their own productions and engage in verbal critiques of their work as well as provide feedback to their classmates. Some of the projects covered during the semester are as follows: in-camera editing, an autobiography, a documentary, and a free-choice piece. Students interested in a career in video, television, animation, gaming, graphic design, advertising, creative writing, journalism and photography will enjoy this class. Students will maintain a digital video portfolio as a final exam to meet NYS Learning Standards.

Prerequisite: English 9 & 10

This course does not meet the NCAA English requirement

½ credit

ADVANCED VIDEO PRODUCTION – Grade 12

This is a semester course open to seniors who have successfully completed the Introduction to Video Production course in their junior or senior year and have a desire to continue developing their video production skills. Students will apply the concepts learned in the introductory course to develop their own body of work. Students will decide on the focus of the body of work based on personal interests and on consultations with the course instructors and classmates. Students will write process papers on their own productions and engage in verbal critiques of their work as well as provide feedback to their classmates. Students will learn to use advanced video editing software. This course is designed for the serious student who plans to pursue a career in media arts. Students will maintain a digital video portfolio as a final exam to meet NYS Learning Standards as well as organize and implement a showing of their films.

Prerequisite: Introduction to Video Production

Option in 5 Unit Advanced Designation Diploma Sequence **OR** Independent Elective
(This course does **NOT** meet the graduation requirements for one Unit of Art/Music)

This course does not meet the NCAA English credit requirement.

½ credit / 3 TC3 credits (COMM 115) when taken with Introduction to Video Production.

FAMILY AND CONSUMER SCIENCE

GOURMET FOODS - Grades 10 – 12

Gourmet Foods is a 20-week course that covers a variety of topics including kitchen safety and sanitation, cooking vocabulary, equipment, nutrition, and eating well on a budget. Guest presenters provide an opportunity for networking as you learn more about food, *and* career options that you may not have previously considered. Most importantly, in Gourmet Foods you'll learn practical cooking and planning skills as you prepare and sample recipes in the food lab.

½ credit

GLOBAL FOODS - Grades 10 – 12

Gourmet Foods is a 20-week course where students will compare cuisines, ingredients and preferred cooking methods of various cultures throughout the world and the United States. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

½ credit

FASHION IN OUR LIVES – Grades 10 – 12 (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

Fashion in Our Lives is a 20 week course for students in grades 10 – 12. If you are creative, fashion conscious and would like to learn how to use a sewing machine to make your own clothing, this class is for you. Students will begin the course with an exploration of fashion and personal clothing style before developing a basic knowledge of sewing terminology, equipment, and clothing construction skills. Sewing projects will include a pillow case, pajama bottoms, and then a garment of choice. No prior sewing experience required.

½ credit

MATHEMATICS SEQUENCES 2021-2022

The following courses offer the student the option for a
Local or Regents Diploma (sequence 1 & 2) or a
Regents Diploma with Advanced Designation (sequence 3, 4 & 5).
*Please review graduation requirements on page 1.

Sequence 1

Pre-Algebra
Algebra I (R)
Geometry (NR)
Modern Math (NR) or Math 122* (C)

Sequence 2

Algebra I (R)
Geometry (R or NR)
Business Math or Modern Math (NR)
Modern Math (NR) or Math 122* (C)

Sequence 3*

Algebra I or Algebra I Honors (R)
Geometry (R)
Trigonometry & Statistics
Algebra II (R) & (C)

Sequence 4*

Algebra I or Algebra I Honors (R)
Geometry (R)
Algebra II Honors (R)
College Algebra 120 & Precalculus 138 (C)

Sequence 5 (Accelerated)*

Algebra I Honors (R) (8th grade)
Geometry (R)
Algebra II Honors (R)
College Algebra 120 & Precalculus 138 (C)
Calculus 201 (C)

(NR) Non Regents

(R) indicates Regents Course

(C) indicates college credit through TC3

* indicates college preparatory coursework in mathematics

PRE-ALGEBRA

This course contains a general introduction to algebra, and other areas of basic skills in mathematics. Problem solving topics and techniques are introduced. Emphasis is given to preparation for the Algebra I Regents Exam the following year.

Prerequisite: Math 8

1 credit

ALGEBRA I

The fundamental purpose of this course in Algebra is to formalize and extend the algebraic topics that students learned in the middle grades. This algebra-based course will cover five modules of study outlined in the high school Common Core State Standards for Algebra I through the introduction of modeling, discourse, and problem-solving. Emphasis is given in preparation for the Algebra I Regents Exam.

Prerequisite: Course credit in Math 8 and/or Pre-algebra.

1 credit

ALGEBRA I HONORS

The fundamental purpose of this course in Algebra is to formalize and extend the algebraic topics that students learned in the middle grades. This algebra-based course will cover and extend all five modules of study outlined in the high school Common Core State Standards for Algebra I. Algebra I Honors requires greater independent work habits as it moves at a faster pace. This provides opportunities for highly challenging coursework to increase algebraic discussion and deepen students' understanding of algebraic concepts. Emphasis is given in preparation for the Algebra I Regents Exam.

Prerequisite: 90% or higher average in Math 8 along with teacher recommendation.

1 credit

GEOMETRY (R)

The fundamental purpose of this course in Geometry is to formalize and extend the geometric experiences from the middle grades. This geometric based course will cover five modules of study outlined in the high school Common Core State Standards for Geometry. Emphasis is given in preparation for the Geometry Regents Exam.

Prerequisite: Course credit in Algebra I and a recommended score of 75% on the Algebra I exam.

1 credit

GEOMETRY (NR)

The fundamental purpose of this course in Geometry is to formalize and extend the geometric experiences from the middle grades. This course will emphasize a basic understanding of five of the modules of study outlined in the high school Common Core State Standards for Geometry. This course takes a more informal approach to the study of geometric concepts in comparison to Regents Geometry. Students in this course will not prepare for or take the Geometry Regents exam.

Prerequisite: Course credit in Algebra I

1 credit

TRIGONOMETRY & STATISTICS

Building on their previous work with functions, and on their work with trigonometric ratios and circles in Geometry, students now use the coordinate plane to extend trigonometry to model periodic phenomena. Students will extend their understanding of probability to include unions, intersections, complements, conditional probabilities, and the concept of independence. Data distributions will be analyzed along with methods of collecting data. Students explore using data from a random sample to estimate a population mean or a population proportion and use simulation to create an understanding of margin of error. The final focus of study is on drawing conclusions, such as statistical significance, based on data from a statistical experiment. This is year one of a two year sequence toward the Algebra II Common Core Regents exam and will correlate to Eureka Modules 2 & 4.

Prerequisite: Course credit in Regents Geometry or course credit in Non-Regents Geometry with teacher recommendation.

1 credit

ALGEBRA II

Building on their work with linear, quadratic, and exponential functions from Algebra I, students extend their repertoire of functions to include polynomial, rational, radical and logarithmic functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and exponential equations using logarithms. This is year two of a two year sequence toward the Algebra II Common Core Regents exam and will correlate to Eureka Modules 1 & 3. Students will take the Algebra II Common Core Regents exam in June. Students need a final course average of 75 in order to receive transferable TC3 college credit for concurrent enrollment in Math 120 – College Algebra.

Prerequisite: Course credit in Trigonometry & Statistics, teacher recommendation, and a minimum of 65% on the Trigonometry & Statistics final exam.

1 credit/4 TC3 college credits

ALGEBRA II HONORS

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Building on their previous work in Algebra I & Geometry, students will examine probability distributions, identify different ways of collecting data, and use the coordinate plane to extend trigonometry to model periodic phenomena. All four modules of study outlined in the high school Common Core State Standards for Algebra II will be completed. Students in this course will take the Algebra II Common Core Regents Exam in June.

Prerequisite: Course credit in Geometry, teacher recommendation, and a minimum of 75% on both prior mathematics Regents exams.

1 credit

MODERN MATHEMATICS

This course is designed as a third or fourth year of mathematics for students who have already passed a mathematics Regents exam. Topics may include consumer mathematics, intermediate algebra, geometry, logic, statistics, and probability.

Prerequisite: Course credit in at least 2 mathematics courses and a passing score on 1 mathematics Regents exam.

1 credit

COLLEGE ALGEBRA (MATH 120)

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

This course covers fundamental algebra topics, including equations and inequalities, functions and graphing, polynomial and rational functions, and exponential and logarithmic functions. 1st semester course students need a final course average of 75 in order to receive transferable TC3 college credit.

Prerequisite: Course credit for Algebra II Honors and a minimum of 65% on the Algebra II Regents exam.

½ credit / 4 TC3 college credits

PRECALCULUS (MATH 138)

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

This course continues the study of fundamental algebra and trigonometry topics, including trigonometric identities and applications, analytic geometry, systems of equations, sequences, series and probability. 2nd semester course students need a final course average of 75 in order to receive transferable TC3 college credit.

Prerequisite: Minimum of 75% in College Algebra

½ credit / 4 TC3 college credits

TECHNICAL MATHEMATICS (MATH 122)

Designed specifically to meet the needs of students in technology programs, this course is a study of fundamental algebraic operations, linear equations, functions, applied geometry, trigonometry, and vector analysis. MATH 122 fulfills the SUNY General Education Mathematics requirement. This is an applied mathematics course designed to provide the required mathematical tools for students in technology programs such as Construction Technology and Electrical Technology. Students need a final course average of 75 in order to receive transferable TC3 college credit for concurrent enrollment in Math 120.

Prerequisites: 3 credits in high school mathematics; 65 or greater on Algebra I Regents; Recommendation from a math teacher.

1 credit / 3 TC3 college credits

CALCULUS (MATH 201)**(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)**

This course deals with the mathematics of change and motion, and is designed for the advanced high school mathematics student. Topics include limits, continuity, derivatives of algebraic and trigonometric functions, anti-derivatives, and the definite integral. Applications include curve sketching, optimization problems, related rates, area under and between curves, and volumes of revolution. Students need a final course average of 75 in order to receive transferable TC3 college credit.

Prerequisite: Minimum of 75% in Precalculus

1 credit / 4 TC3 college credits

MUSIC

HS CONCERT BAND

The Concert Band is Dryden High School's large instrumental ensemble. This ensemble is open to all HS students who play a standard band instrument. Students enrolled in the course will have weekly pull out lessons. Those studying privately on their band instruments may opt out of the weekly lessons. The Concert Band performs four curricular concerts and several community concerts per year. These concerts occur outside the regular school day. Students enrolled in Concert Band may also play in the small ensembles offered by the school. Those who wish to join band for the first time should contact the band director.

½ - 1 credit

SENIOR HIGH CHORUS

The Senior High Chorus is an ensemble of mixed voices that performs a variety of music ranging from classical to popular. The group meets every other day and is open to all students who are interested in learning how to read music and sing with proper vocal technique. All students will participate in small group lessons that rotate during the school day. The ensemble performs three concerts a year. No prior experience is required other than a love for singing!

½ credit

MUSIC THEORY

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

Students will be instructed in the basics of musicianship, music literacy and Common Practice Theory. Composition and keyboard skills will also be explored. Students will be expected to sing. Assessments will include written tests, playing tests, sight-singing hearings, and group and independent projects.

1 credit

PHYSICAL EDUCATION & HEALTH

PHYSICAL EDUCATION

Physical education is a requirement for all students. The program is geared to instill all participants an attitude of good health and physical fitness. Students in grades 9, 10, 11 and 12 take physical education three days out of each six-day cycle. The program includes a variety of lifetime leisure activities, cooperative games, competitive team and individual sports in exercise and fitness related activities. PE classes are held outdoors throughout the school year, so please dress accordingly. The student successfully completing the program will earn 1/2 credit of credit each year. Physical education grades are averaged in to the students' overall GPA.

2 credits in PE are required for graduation.

½ credit per year

HEALTH 10

This course is discussion-oriented, dealing with individual and community health. The course is divided into three components: You, Your Body, and Your Choices. Community resources and films are essential aspects of the topics discussed. Health 10 is a graduation requirement for all students. Typically, this course is taken in the sophomore year.

½ credit

PERSONAL HEALTH (HLTH 206 PERSONAL HEALTH) (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

Seniors who take this course will discuss and assess a wide range of health topics. College level course work will include in depth analysis on nutrition, fitness, human sexuality, drug use, consumer health, and environmental health. An ability to work independently will be needed for successful completion of this course. Students need a final course average of 75 in order to receive transferable TC3 college credit.

Prerequisite: Health 10

½ credit / 3 TC3 credits

LIFETIME HEALTH, NUTRITION AND FITNESS (HLTH 126 HEALTH AND FITNESS (FALL)/FITN 215 AEROBIC CONDITIONING (SPRING) (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

Lifetime Health, Nutrition and Fitness is a concurrent enrollment course with Tompkins Cortland Community College which will provide students with the skill, knowledge, and real life application of the importance of growing into a strong and healthy adult. This course will explore elements of health, nutrition, and fitness along with health-related fitness components, injury prevention, and how to respond to an emergency. Students will learn first in the classroom with varying lessons which will be turned into hands on experience in the fitness center. Exploring the areas of health-related fitness combined with exploring the elements of health, and nutrition will provide students with a well-rounded understanding of how to assess their own health and fitness; and how to provide oneself with the best program to help them maintain a healthy life and lifestyle into their adult years.

1 credit / 2 TC3 credits

LIFEGUARDING COURSE

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

The American Red Cross lifeguard training and certification are imperative to the process of getting hired on as an official Red Cross lifeguard. This detailed training includes both testing of hands-on skills as well as comprehension on written tests. The certification, which includes First Aid, CPR and AED training, is valid for two years upon completion and is accepted nationwide. The American Red Cross is the most respected source for training and certification of this kind. Once the class is successfully completed students will pay \$35 to the American Red Cross

Prerequisite: Students must be at least 15 years old by the last day of class and Students must pass a pre-course swimming skills test prior to taking lifeguarding courses.

¼ to ½ credit

SCIENCE

All students are expected to take science classes in 9th, 10th and 11th grade regardless of science acceleration. Physics and Chemistry are required by colleges for science and health-related majors.

For any science course culminating in a NYS Regents exam, there is a lab requirement. Students who fail to meet the lab requirement will not be eligible to take the Regents Exam.

Since the number of Advanced or Honors sections will vary from year to year to meet student needs, it is possible that there may be more applicants than there are seats. Enrollment in advanced or honors sections of science classes is based on the applicant's past academic performance. This includes not only teacher recommendations, but hard data such as class rank, past Regents scores in science and math, and general course grades. All applicants will be considered in the same way.

Sequence 1

9th grade - Regents Biology

10th grade - Regents or Honors Earth Science

11th grade - Science Elective, Regents Chemistry* or Chemistry 101/102 Honors#

12th grade - Regents Physics* or Physics 104/105# or Biology 104/105 or Science Elective

Sequence 2 - Science Accelerated Students

8th grade - Regents Biology

9th grade - Regents or Honors Earth Science

10th grade - Regents Chemistry* or Chemistry 101/102 Honors#

11th grade - Regents Physics* or Physics 104/105# or Biology 104/105# or Science Elective

12th grade - Regents Physics* or Physics 104/105# or Biology 104/105# or Science Elective

* Indicates college preparatory coursework in science

Indicates concurrent enrollment classes through TC3

Science Electives will be offered yearly dependent on available staffing and include:
Astronomy, Climate Change, Field Biology, Food Science, Forensics, Independent Research, Marine Biology

REGENTS BIOLOGY (Living Environment)

This is a laboratory-based course that teaches the basic concepts and skills needed to understand modern biology. Students learn about the key biological concepts and have extensive laboratory experiences to learn about the process of scientific investigation. Students study the unity and diversity of life. Topics include ecology, biochemistry, cell structure and function, genetics, evolution, taxonomy, and anatomy and physiology. Students will take the Living Environment Regents exam at the end of this course.

8th grade accelerated students who do not maintain an 80% average in Marking Period 1, an 85% in Marking Period 2 and a semester 1 average of 85% may be required to change to the Life Science course.

1 credit

REGENTS EARTH SCIENCE

Regents Earth Science teaches the basic concepts and skills needed to understand the geosciences through laboratory investigations and classroom activities. Topics include geology, oceanography, meteorology, environmental science, and astronomy. Students will take the Earth Science Regents exam at the end of the course.

1 credit

EARTH SCIENCE HONORS

Earth Science Honors is a laboratory-based course which explores the geosciences including geology, astronomy, environmental science, oceanography and meteorology. Earth Science Honors is a rigorous and fast-paced course for self-motivated, high-achieving students with strong algebra skills. Students in this course are required to give presentations on modern issues in the geosciences, lead class discussions of current scientific literature, and attend the evening "Conversations with Scientists" lecture series. Considerable time and effort in and out of the classroom is required. Students will take the Earth Science Regents exam at the end of this course. Eligibility for this course is based on past performance in science and math, and teacher recommendation. Students who do not maintain an 80% average in the course (starting with the first marking period) may be required to change to the Regents Earth Science course. Enrollment will be limited to 24 students per section.

Prerequisite: Biology, Teacher Recommendation, and minimum score of 80% on the Living Environment Regents exam.

1 credit

REGENTS CHEMISTRY

This Chemistry course is designed to prepare students for the New York State Regents Chemistry Exam. The course covers the same basic topics as honors Chemistry, with less emphasis on mathematical applications. It requires work in and out of class. Topics include properties of matter, atomic structure, chemical bonding, chemical equations, reaction rates, stoichiometry, organic and nuclear chemistry. Students will perform numerous labs and use computer simulations, giving the course a guided inquiry approach. Anyone interested in careers in engineering, environmental or health-related fields will find this course helpful. A Regents exam is given in June. Enrollment will be limited to 24 students per section.

Prerequisite: Biology and Earth Science and Teacher Recommendation or permission of current teacher and minimum Algebra I Regents score of 70%.

Co- or Prerequisite: Regents Geometry

1 credit

CHEMISTRY HONORS

This chemistry course gives the students the solid grounding in basic chemical principles and skills that they need for college. It meets all requirements for New York State Regents Chemistry. Add to that foundation, a strategic problem solving strand and an innovative laboratory strand and students will leave with a mastery of content objectives, experiences in scientific inquiry, and mathematical relationships. The laboratory portion of the course integrates technology, inquiry based labs, and formal written lab reports. Anyone interested in careers in engineering, environmental or health-related fields will find this course necessary. A Regents exam is given in June. Students need a final course average of 75 each semester in order to receive transferable TC3 college credit. Students who do not maintain an 80% average in the course (starting with the first marking period) may be required to change to the Regents Chemistry course. Enrollment will be limited to 24 students per section.

Prerequisite: Biology and Earth Science, Teacher Recommendation and minimum Regents score of 80% for Living Environment and Earth Science, and a minimum Algebra I Regents score of 75%.

Co- or Prerequisite: Regents Geometry

1 credit/ 8 TC3 credits (Chemistry 101 and Chemistry 102)

REGENTS PHYSICS

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

This course is the recommended basic function and preparatory course for most college level introductory physics courses. It is a comprehensive program which integrates lab activities, demonstrations and lectures. This course has traditionally been the fourth science course taken in the Regents sequence for academic students. The course is fairly mathematical but does not involve any advanced math. A working knowledge of basic trigonometry and algebra are required, but no calculus will be included. Students should have completed or at least be taking Algebra 2. The topics of study are the same as those in college physics (described below), but emphasis may vary. Anyone interested in careers in engineering or health-related fields will find this course necessary. A Regents exam will be given in June.

Prerequisite: Biology and Earth Science and Teacher Recommendation.

1 credit

PHYSICS 104/105- GENERAL PHYSICS I & II (MAY NOT BE OFFERED EACH YEAR- CONTINGENT ON STAFFING AND FUNDING)

This course is a laboratory-based program in introductory physics designed to meet the needs of advanced students planning college level study in any science, engineering, or health-related field. The course is rigorous and emphasizes quantitative methods using computer interfacing for data collection and analysis. Students who take this course must have a strong working knowledge of Algebra 2/Trigonometry mathematics, be fluent in using a scientific calculator, and should be taking an advanced math (calculus or pre-calculus) along with physics. Topics of study include, but are not limited to, Newtonian mechanics, waves and sound, light and optics, electricity and magnetism, nuclear and modern physics. Students need a final course average of 75 each semester in order to receive transferable TC3 college credit. Enrollment will be limited to 24 students per section.

Prerequisite:

PHSC 104: Teacher Recommendation, Biology and Chemistry with minimum scores of 80% on each of the Living Environment and Chemistry Regents exams.

PHSC 105: Teacher Recommendation, Course average in PHSC 104 of C or better.

Co-requisite/Prerequisite: Advanced Algebra

½ credit/ 4 TC3 credits each semester

ENVIRONMENTAL SCIENCE – ENVS 101 – Grades 11 – 12

Environmental science is a multi-disciplinary concurrent enrollment course for you if you have an interest in learning about the many ways all of us interact with the natural environment. By increasing your knowledge, you can have a more positive impact on your immediate environment and your community! You will learn the science behind real-life issues and problems that affect the environment. A balanced view of each environmental issue will be presented, along with valuable scientific content. The philosophy driving this course is that informed citizens can make better decisions about how to build a sustainable society. In addition, this course encourages a critical understanding of the various historical, political, economic, and ethical forces that have shaped and continue to shape our world. You are invited to come and learn more about the biological, chemical, and physical aspects of our environment.

Prerequisite: Minimum score of 65% on the Living Environment and Earth Science Regents exams.

1 credit / 3 TC3 credits

FORENSIC SCIENCE

This is a one-year applied science course that is based on principles and procedures used in crime scene investigations and introductory analyses performed by forensic scientists. It relates many areas of scientific endeavor to real-life situations and builds on previous biology, chemistry, and physics skills. The course will focus on applying current scientific methods to the collection, documentation, preservation, examination, and interpretation of physical evidence, using modern laboratory technologies and procedures. Some of the topics that will be covered are the investigation of fingerprints, fiber analysis, toxicology, blood/DNA samples, ballistics, and other trace evidence.

Prerequisite: Biology

1 credit

**INDEPENDENT RESEARCH COURSE
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)**

This course provides an opportunity for students to conduct an independent research project on their topic of interest. Are you passionate about engineering and want to design a functioning model to test its feasibility or maybe you want develop a research backed exercise routine to trial? Topics may range from biomedical sciences to nuclear physics, the students imagination is the limit. Students will gain valuable experience with performing a literature review and/or experimental trials ending with a final report or poster presentation. The report/poster should represent a summary of the student's research done over the course of the spring semester.

Prerequisites: Biology and Earth Science

1 credit

**BIOLOGY 104/105
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)**

This is a concurrent enrollment college introductory level biology course. BIOL 104 and BIOL 105 course sequence is strongly recommended for students for students interested in life science and environmental science programs. This course is also appropriate for those who have a deep interest and curiosity about living things and a rigorous study of biology even if their major is in another field. Topics include basic chemistry and biochemistry, cell morphology, physiology, classical and molecular genetics, evolution, ecology, biodiversity, the scientific method, independent research and various presentation forms. Laboratories are strongly quantitative. Substantial outside preparation for lectures and laboratories is required. Enrollment will be limited to 24 students per section.

Prerequisites:

BIO 104: Biology and Chemistry with minimum scores of 80% on each of the Living Environment and Chemistry Regents exams.

BIO 105: Course average in BIO 104 of C or better.

½ credit / 4 TC3 credits per semester

**MARINE BIOLOGY – Grades 11 – 12
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)**

Come and explore the great world of the sea in an introductory course into the marine sciences. The course of study will focus on marine organisms, their behaviors and their interactions with the environment. Other topics to be covered will be: oceanic zones and their biodiversity, marine ecology and oceanography. This course is intended to provide students with the opportunity to obtain ½ science credit to meet graduation requirements and may be paired with another ½ science credit to complete a third year of science.

Prerequisite: Biology

½ credit

ASTRONOMY – ASTR 101 – Grades 10 – 12
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

This is a concurrent enrollment introductory level astronomy course. The course encompasses the study of the Earth, the planets, our solar system, stars, galaxies, and the evolution of the universe. We will explore the possibility that life exists elsewhere in the universe and how humans might actually be able to travel vast distances in interstellar space. Experiments and activities will emphasize how we know what we think we know about places we've never been. A long term project will get you intimately acquainted with the planets and important moons in our solar system. Current missions and the role of NASA and its partners will be investigated, and evening star gazing with your classmates with our school's powerful reflecting telescope will help you recognize stars and their constellations in the night sky. This course is intended to provide students with the opportunity to obtain ½ science credit to meet graduation requirements and may be paired with another ½ science credit to complete a third year of science.

Prerequisites: Earth Science and Algebra1

Students need a final course average of 75 in order to receive transferable TC3 college credit.
½ credit / 3 TC3 credits

FOOD SCIENCE – Grades 11 – 12
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

Food science integrates the principles of many branches of science and relies on the application of the rapid advances in technology to expand and improve local and global food supply. Students will gain an understanding of how these principles apply to the composition of foods, the nutrition of foods, food and food product development, food processing, food safety and sanitation, food packaging, and food storage. Students will evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods. Safe food handling techniques will be stressed. Much of the course will be hands-on learning. There will be several projects students must complete at home. Students should expect to prepare reports and discuss their results. Tasting of laboratory products and other sensory evaluations of products may be included. This course offers juniors and seniors the opportunity to explore career options in the food industry.

Prerequisite: Biology

1 credit

CLIMATE CHANGE
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

Climate change is perhaps the most important environmental issue of the 21st century. Students will discover the scientific basis for our understanding of climate change and how today's climate change is different from past climate cycles. Causes of climate change, both natural and human-produced will be explored and students will learn how scientists use technology to acquire climate data and how long-term models are developed. Additionally, students will explore the impacts of these changes on humans and the entire Earth ecosystem and what strategies are being developed to address the problem. Finally, students will consider the potential social, economic, and political consequences of climate change and debate what international policy solutions might be necessary.

Prerequisites: Biology, Earth Science, and Algebra

½ credit

FIELD BIOLOGY – Grades 11 – 12
(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

Students will become more aware and appreciative of their natural surroundings as they discover and examine the biological diversity and ecology of terrestrial and aquatic ecosystems of Central New York. This course will focus on student-centered, student-driven inquiry as well as citizen science opportunities. Current and future impacts of climate change on our local ecosystems will also be explored. During this course, students will conduct a research project - which can be a new, self-created project or the continuation (and augmentation) of existing citizen science research - with a culminating presentation and summary paper. This course offers students the opportunity to get outside, use scientific and statistical methods to collect and analyze relevant data, and participate in current local and global research projects. Field trips will be a required part of this course.

Prerequisite: Biology and minimum score of 65% on the Living Environment Regents exam.

1 credit

SOCIAL STUDIES

College credits from SUNY TC3 for Concurrent Enrollment in Social Studies courses available to students earning 85% or higher for each marking period.

GLOBAL HISTORY & GEOGRAPHY I

This course focuses on the five New York State Social Studies Standards, which are common themes that reoccur across time and place and historical eras. The units of study will include Early Civilizations, Empire of the Ancient World, Regional Civilization and Early Modern times. Successful completion of course fulfills a graduation requirement.

1 credit

GLOBAL HISTORY & GEOGRAPHY II

This course will be continuation of Global History & Geography I. The units of study to be covered will include Enlightenment and Revolution, Industrialism and a New Global Age, World Wars and Revolutions, and The World Today. Students must take the Regents encompassing Global History and Geography I and II. Successful completion of course and passing the Regents exam fulfills a graduation requirement.

1 credit

AP EUROPEAN HISTORY

(MAY NOT BE OFFERED EACH YEAR – CONTINGENT ON STAFFING & FUNDING)

The Advanced Placement European History course is an in-depth examination of the general narrative of European History from approximately 1450-present with an orientation towards preparation for the College Board's Advanced Placement Examination. This course concurrently satisfies the Global History and Geography II requirement and students will take the corresponding Regents examination at the end of the year. This AP offering aims to mirror a college-level introductory course and includes an examination of the political and diplomatic, intellectual and cultural, and social and economic history of Europe. In addition to providing a basic narrative of events and movements, some of the goals of the Advanced Placement course in European History are to develop: a) an understanding of some of the principal themes in modern European history, b) an ability to analyze historical evidence, and c) an ability to express that understanding and analysis in writing. Students are expected to pay the cost of the examination (approximately \$95) as well as purchase their own supplemental books at the teacher's discretion. Students will also be responsible for completing assignments during the summer prior to beginning the course. **NOTE:** students who drop to Global History and Geography II will be expected to do additional work to catch up in that class as the curriculum is different.

1 credit

AP European Eligibility Process:

- 1) The teacher of AP European History will solicit recommendations of potential students from the Social Studies department prior to course registration. This recommendation is **not** to be solicited by the student or a parent/guardian.
- 2) Those students will be informed that they have been recommended for the course and will be instructed to submit a writing sample during a specified time period.
- 3) The writing samples will be reviewed by the high school social studies department and students who meet the criteria will be notified they are eligible to enroll in the course.
- 4) If a student was recommended but was not deemed eligible due to their writing sample, that student may still gain entrance to the course by maintaining an average of 90% or higher in the Global History & Geography I course **and** must receive a grade of 90% or higher on the final examination for the Global History & Geography I course.
- 5) Students who do not maintain at least a 75% average in the course (starting with the first marking period) may be required to drop AP European History and enroll in the Global History & Geography II course.

UNITED STATES HISTORY & GOVERNMENT

This course continues the effort of the Social Studies program to insure that students develop an understanding of and appreciation for the American tradition rooted in history and adapted by contemporary society. Objectives include:

- Cultural heritage - events and people
- The Constitution and its principles as persistent themes in national development
- The impact of technology on culture and the economy
- The development and effects of cultural diversity
- The operation of the Federal Government
- The development of democratic values
- The development of foreign policy and contemporary role in world affairs
- The formation of public policy

Successful completion of course and passing the Regents exam fulfills a graduation requirement.

1 credit

**AP UNITED STATES HISTORY & GOVT
(MAY NOT BE OFFERED EACH YEAR – CONTINGENT ON STAFFING & FUNDING)**

The Advanced Placement United States History and Government course is an in-depth examination of American history from the Pre-Columbian world to the present with an orientation towards preparation for the College Board's Advanced Placement Examination. The course concurrently satisfies the United States History and Government requirement and students will take the corresponding Regents examination at the end of the year. This course places particular emphasis on reading, interpreting and analyzing primary sources, as well as essay writing. Students are expected to pay the cost of the examination (approximately \$95) as well as purchase their own supplemental books (up to 4) at the teacher's discretion. Students will also be responsible for completing assignments during the summer prior to beginning the course.

1 credit

Determining eligibility for students to take this course will follow the below process:

- 1) The teacher of AP US History will solicit recommendations of potential students from the Social Studies department prior to course registration. This recommendation is **not** to be solicited by the student or a parent.

- 2) Those students will be informed that they have been recommended for the course and will be instructed to submit a writing sample during a specified time period.

- 3) The writing samples will be reviewed by the AP US History teacher and students who are deemed acceptable will be made known that they are eligible to take the course

- 4) If a student was not deemed eligible, he/she may still gain entrance to the course by maintaining an average of 90% or higher in the Global II course (or 81% or higher in the AP European course) **and** must receive a grade of 85% or higher on the Global II Regents Exam.

- 5) Students whose writing sample met requirements but did not achieve a minimum grade of 85% (mastery) on the Global History Regents lose eligibility for AP US.

- 6) A student who does not complete all components of the Summer Work will lose eligibility for the course.

- 7) Students who do not maintain a 75% average in the course (starting with the first marking period) may be required to change to the Regents US History course.

ECONOMICS – Grade 12

This course is designed to provide the students with economic knowledge and skills necessary to function as informed and economically literate citizens in U.S. society and the world. Elements of study include:

- Economic systems --- Supply, demand and prices
- Consumers, businesses, labor and agriculture
- Public goods and services
- Money, Unemployment, inflation and distribution of income
- Fiscal and monetary policy
- International trade, Economic problems of developing nations
- Personal financial management

Successful completion of course fulfills a graduation requirement.

½ credit

PARTICIPATION IN GOVERNMENT – Grade 12

This course is designed to assist students in becoming effective participants in government. Elements of study include:

- Identifying and analyzing public policy issues
- Using the library, surveying, and interviewing
- Identifying alternative public policies and assessing changes of success
- Applying public policy skills in a policy process
- Debate public policy issues

Successful completion of course fulfills a graduation requirement. As part of the course, students must complete a mandatory community service component. A minimum of 10 hours (5 hours per marking period) of approved community service, which is verified by the Participation in Government teacher, is required. Students are required to accurately log their volunteer hours, as well complete 3 journal entries and a final report. **Students who take PLATO will also be required to complete this Community Service Component.**

½ credit

Drop/Add requirements for Economics and Participation in Government: “Students who wish to join a semester course after the end of the first full week must schedule a minimum of two Activity Period sessions in which they acquire and then be assessed on the content learned to date and earn a passing score on the assessment in order to remain in the course.”

HOLOCAUST STUDIES

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

This course is offered to juniors and seniors as a Social Studies elective. The course examines the roles of prejudice and discrimination, the historical events preceding the Holocaust, the roles of individuals associated with the Holocaust (victims, perpetrators, bystanders, resistance fighters, rescuers, collaborators), and the many impacts of the Holocaust.

½ credit

PSYCHOLOGY**(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)**

This course is available for juniors and seniors. This is a general survey of the major elements of modern Psychology to include but not be limited to: the brain and its system, brain chemistry, brain research, cognition, development, personality theories, abnormal psychology, and schools of therapy.

½ credit

TECHNOLOGY

DESIGN AND DRAWING FOR PRODUCTION – (DDP)

DDP is a study of engineering graphics as a medium for communication and problem solving. Course content will include a contemporary systematic process for the development of graphic representations to communicate ideas, objects, or systems. This course develops student problem solving skills with emphasis placed upon the concept of developing solid rendering of an object. The course emphasizes critical thinking, creative problem-solving and the decision-making processes by requiring the student to examine past solutions, learn technical drawing processes, experience design techniques and become critically active in evaluating both personal work and work by others. The course will emphasize the design development process of a product and how a model of that product is produced, analyzed and evaluated. Emphasis will be placed on skills development through hands-on laboratory experience.

This course is a Technology Education course and can be used to fulfill the Art/Music requirement for graduation.

1 credit

SYSTEMS OF TECHNOLOGY – GRADES 10 – 12 (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

A semester long introductory elective course that will cover three (3) systems of technology.

Production Systems: Students will design and construct projects from the technological materials of wood, metals, and plastics.

Transportation Systems: Students will design and construct a land, marine, or aerospace vehicle (motorized scooter, remote controlled boat, flying model rocket).

Energy Systems: Building projects that use gasoline engines, wind power, and solar cells.

½ credit

ELECTRICITY/ELECTRONICS – GRADES 10 – 12 (MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING & FUNDING)

This elective course is open to all students who would like to experience hands on activities in electricity and electronics. It meets for one semester and is divided into two parts. Introduction to Electricity will include activities which will develop knowledge and skills for working with low voltage and line voltage (110 volts) circuits and devices. Basic house wiring is included. Electronics will include activities which develop knowledge and skills for building electronic circuits. Electronic components and integrated circuits will be used to produce electronic printed circuit board projects.

½ credit

WORLD LANGUAGES

All students will be required to have at least one credit in a language other than English. They may attain that credit by passing the Checkpoint A Exam upon completion of the required Middle School program (grades 7-8) or by passing a High School language course.

FRENCH I

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

Students will work to develop the basic communicative skills of listening comprehension, speaking, reading and writing necessary to be successful at Checkpoint A of the New York State Syllabus. This course can serve as the minimum credit required for the LOTE graduation requirement OR as an elective for additional language study.

1 credit

SPANISH 1

Students will work to develop the basic communicative skills of listening comprehension, speaking, reading and writing necessary to be successful at Checkpoint A of the New York State Syllabus. Spanish 7/8 is the equivalent to the completion of high school Spanish 1. This course is for students who have never taken Spanish or have not met their LOTE graduation requirement through Middle school.

1 credit

SPANISH 2T

This transitional course is for new entrants to the district and those students who passed the Checkpoint A Exam. It is a review class which reinforces the communicative and grammar skills from Spanish 7/8 and/ or Spanish 1 to build additional proficiency. It is designed for students that plan to continue to the Checkpoint B (Spanish 3) level and need more time to develop skills needed for success in Spanish 2.

1 credit

SPANISH 2

This is the second year of the sequence that leads to Checkpoint B of the New York State Syllabus. Emphasis is placed on increasing vocabulary and building communicative proficiency. Students will be expected to weave communicative skills and aspects of culture into both written and oral performance assessments throughout the year. Students will begin to speak Spanish more frequently as the year progresses.

Prerequisite: Students must have scored 85 or better on the Checkpoint A Exam and/ or have teacher recommendation to go directly to this course.

1 credit

College credits from SUNY TC3 for Concurrent Enrollment in Spanish courses available to students earning 85% at the end of the first semester.

SPANISH 3

This course completes the New York State Checkpoint B LOTE sequence. The students will be exposed to complex grammatical structures while continuing the development of their reading, writing, speaking and listening skills. Students will be expected to converse in Spanish with the language instructor and their classmates on a regular basis. Successful completion of the three-year program, including passing the Checkpoint B Exam, is necessary for attainment of a Regents Diploma with Advanced Designation.

1 credit/3 TC3 credits (Spanish 102)

SPANISH 4

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

In Spanish 4, students will continue to develop proficiency of the language in the language and related cultures. Additional emphasis is placed on the fostering of spoken fluency, while students continue to develop their listening, reading and writing. Students will be exposed to an array of readings, current events and cultural experiences.

1 credit/3 TC3 credits (Spanish 201)

SPANISH 5

(MAY NOT BE OFFERED EACH YEAR - CONTINGENT ON STAFFING AND FUNDING)

Spanish 5 will continue to develop and enrich the students' proficiency of the language in the areas of conversation, culture, history and literature. Emphasis continues to be placed on oral communication, while incorporating literature and current topics of interest. Students will use a wide variety of cultural experiences and authentic resources to develop more advanced proficiency in the language.

1 credit/3 TC3 credits (Spanish 202)

New York State Seal of Biliteracy

Graduating seniors may be eligible to earn the New York State Seal of Biliteracy in recognition of a high degree of proficiency in two or more languages. This Seal will document their language proficiency for both future employers and university programs. Students can begin earning points towards their Seal in 11th grade in a wide variety of their classes. The Seal of Biliteracy can be earned either as a component of the World Language program or independently during 12th grade. Interested students should contact Mrs. Tice or Mrs. Bustamante.

The list of courses below may contribute towards the NYS Seal of Biliteracy:

Art

Advanced Studio in Photography: Darkroom
Studio in Photography
Graphic Design
Ceramics
Intro to Video Production & Advanced Video Production
AP Studio Art 2D & 3D
Advanced Drawing & Painting
Drawing & Painting

Business

Introduction to Microsoft Office/ Business Communications
Career & Financial Management
Computer Applications & Entrepreneurship
Business Math
College & Career Prep I & II
Invest I & II
Accounting
Business Law

English

Mythology I & II
English 12
Young Adult Literature
Public Speaking
Communication
English 11
English 11 Honors
English 101
English 102

Mathematics

Math 122

Health

Personal Health
Lifetime Health, Nutrition & Fitness

Science

Environmental Science
Forensic Science
Astronomy

Social Studies

AP US History
Government

World Languages

Spanish 5

2021-2022
TST BOCES CAREER AND TECH CENTER
COURSE GUIDE

Animal Science	1 or 2 years
Auto Body	1 or 2 years
Auto Technology	1 or 2 years
Computer Tech/Cybersecurity	1 or 2 years
Cosmetology	1 or 2 years
Criminal Justice	1 or 2 years
Culinary Arts	1 or 2 years
Digital Media Technology	1 or 2 years
Early Childhood	1 or 2 years
Heavy Equipment	1 or 2 years
Nurse Assisting and Health Occupations	1 or 2 years
Sports Conditioning and Exercise Science	1 or 2 years
Welding	1 or 2 years

Course offerings are subject to change by the TST BOCES Career and Tech Center. Students receive 3 – 4 credits for each year of their Career and Tech Program.

As we seek to improve our student programming, some of these course offerings or curriculum components may change.

CAREER AND TECH CENTER (CTE)

Director: Ms. Cindy Walter

Principal: Mr. Kevin Casler

Phone: (607) 257-1551

Website: <http://tstboces.org/cte>

Career and Tech Programs educate students in a variety of technical areas, preparing them for entering the workforce with a marketable skill and for continuing on to higher education. Classes are conducted at the TST BOCES Career and Tech Center on Warren Road in Ithaca. These programs are taught for a minimum of 2 hours during the AM or PM session each day, and all courses provide an internship experience over the course of their completed curriculum. Bus transportation is provided daily to and from the Career and Tech Center. Students continue their major academic subjects in the remaining three or four periods at the home school district. Students receive 2 – 4 credits for each year of their Career and Tech Program.

All Career and Tech classes are currently New York State approved. To be approved, courses must meet rigorous guidelines related to assessment, an academically strong curriculum that is aligned with the New York State Learning Standards, and relevance to industry practices. All CTE courses meet the NYS graduation requirement to allow students to earn the CTE Pathway by attaining mandatory CDOS hours, and second year students are eligible to earn a Technical Endorsement upon completion of the two year curriculum. Most Career and Tech courses offer integrated math and science credit, and some classes offer Concurrent Enrollment college credit through Tompkins Cortland CC. All Career and Tech Programs have articulation agreements with colleges that have a related program.

CAREER AND TECH (CTE) COURSE DESCRIPTIONS

ANIMAL SCIENCE

1st Year – PM Session

2nd Year – AM Session

Course Description: This program prepares students for a wide range of careers related to animal care and veterinary science. Topics of study include: animal health and disease, nutrition, reproduction, parasitology, anatomy and physiology, and animal behavior. Students work with a variety of companion and production animals to enhance their skills in animal handling, care and management. Students will perform clinical procedures that are commonly performed at veterinary clinics and learn the technical skills to operate and manage a dog grooming clinic. Leadership opportunities are available in this class through the local chapter of the national student leadership organization, FFA (Future Farmers of America), where students participate in leadership training, workshops and national conferences.

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: Not applicable for this course.

Required Materials: Students will need to purchase scrubs and safety glasses for this course – estimated cost is \$20.00.

College Majors/Career Opportunities in this Field: Veterinary Technician, Agriculture, Veterinary Assistant, Equine Studies, Zoology, Conservation Officer, Animal Trainer, Animal Care Specialist, Pet Groomer, Animal Laboratory Assistant, Animal Shelter Worker, Pet Salesperson, Farm Owner/Herdsman.

AUTO BODY

1st Year – PM Session

2nd Year – AM Session

Course Description: This program trains students in collision repair, automotive detailing, painting and restoration work. Topics of study include: collision and auto body repair, auto refinishing, welding techniques, and replacement of parts and sections of panels. Students learn to use hand, power, and specialized auto body tools and equipment to repair dents and frame work on metal and plastic sections of automobiles. Students have the opportunity to create customized paint graphics, airbrushing, and restoration work on high performance and show quality vehicles.

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: Not applicable for this course.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$50.00.

College Majors/Career Opportunities in this Field: Automotive Detailer, Auto Body Technician, Shop Owner/Manager, Automotive Insurance Claim Adjuster, Parts Manager, Auto Glass Installer, Auto Collision Repair Technician.

AUTO TECHNOLOGY

1st Year – PM Session

2nd Year – AM Session

Course Description: This is a nationally certified automotive program through NATEF (National Automotive Technician Education Foundation.) Topics of study include: engine performance, tire repair/replacement, alignment, fuel systems, wiring and electrical systems, power trains and transmissions, brake repair and replacement, steering and suspension. Students will diagnose, troubleshoot and perform preventative maintenance on foreign/domestic cars and light trucks by using the latest techniques and computerized diagnostic equipment.

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: ASE (Automotive Service Excellence) Entry-Level Industry Certification in Maintenance and Light Repair and NYS certification in Motor Vehicle Inspections are available upon completion of this program.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$50.00.

College Majors/Career Opportunities in this Field: Automotive Service Technician, Tire Mechanic, Parts Specialist, Shop Owner, Automotive Sales Representative, Engine Performance Technician, Emissions Analyst, Mechanical Design/Engineering.

COMPUTER TECHNOLOGY/CYBERSECURITY

1st Year – PM Session 2nd Year – AM Session

Course Description: Students will protect computer systems, networks, and programs from digital attacks. Topics of study include: identifying and assembling PC hardware, collecting and analyzing data, installing and configuring operating systems (Windows and Linux). Students will identify cybersecurity attacks and apply countermeasures, design and configure wired and wireless networks, practice programming and ethical hacking, and learn programming and scripting basics (Bash, Powershell, Cisco IOS, Python.)

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: This course offers Concurrent Enrollment credit through Tompkins Cortland CC. Students may be eligible to take several industry certifications - MTA (Microsoft Technical Associate) in Security Fundamentals, Network Fundamentals, and Windows Operating Systems upon completion of this program.

Required Materials: Students do not need to purchase extra supplies for this course.

College Majors/Career Opportunities in this Field: IT Technical Support, Network Support Technician, Cybersecurity Specialist, Computer Programmer, Information Technology, Cryptographer, Computer Repair, Security Administrator, Software Developer, Computer Forensics.

COSMETOLOGY

1st Year – PM Session

2nd Year – AM Session

Course Description: Students will learn technical and communication skills required to be successful in a professional salon work environment. Topics of study include: hair coloring, styling, conditioning and shaping, esthetics, hair care, and massage. Product knowledge, proper application and technical procedures are taught to enhance the personal care of hair, nails, and skin. Students develop and practice their skills during open clinics where the public is invited to make appointments for beauty services. Students must accumulate 1,000 hours of instruction in order to be eligible to take the NYS certification exam.

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: Students can be eligible to earn a NYS Cosmetology License upon completion of the program.

Required Materials: First year students will need to purchase a kit that includes: mannequin, smock, and hair supplies – total cost of the kit is \$200.00. Second year students must buy a senior kit – total cost is \$90.00. Close toe shoes are required footwear for this course. Fundraising opportunities are available for students to offset required materials for this course.

College Majors/Career Opportunities in this Field: Hair Stylist, Cosmetologist, Salon Owner, Color Consultant, Nail Technician, Esthetician, Product Sales Representative, Barber, Electrolysis, Make-Up Artist, Salon Manager.

CRIMINAL JUSTICE

1st Year – PM Session

2nd Year – AM Session

Course Description: Students will learn criminal and civil law, vehicle and traffic law, arrest and court procedures, report writing and professional communication skills. Topics of study include: interviewing skills, self-defense, security, fingerprinting, civil rights, forensics, accident and crime scene illustration, digital photography, and forensics. Students will participate in community service, physical conditioning, patrolling, and crime scene investigation.

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: Students can earn American Red Cross First Aid and CPR certification and NYS Security Guard certification upon completion of this course.

Required Materials: Students will need to purchase a Criminal Justice uniform for this course – estimated cost is \$50.00.

College Majors/Career Opportunities in this Field: Corrections Officer, Police Officer, Security Guard, Conservation Officer, Military Police, Homeland Security Advisor, Crime Scene Investigator, State Police Officer, Customs/Border Control Agent, Court Reporter, Criminologist, Private Investigator.

CULINARY ARTS

1st Year – PM Session 2nd Year – AM Session

Course Description: Students will learn the fundamentals of safety and sanitation, equipment operation, and how to prepare short order and large quantity cooking meals. Topics of study include: baking breads and pastries, creating main entrees, side dishes, and soups, practicing professional skills through customer service, menu planning, and recipe conversions. Students will work effectively with their team members, learn restaurant management skills through catering services, cake and pastry orders, and the complete operation of *Bistro 555*, the on-campus restaurant.

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: This course offers Concurrent Enrollment credit through Tompkins Cortland CC. Students can earn industry certification as a ServSafe Food Handler upon completion of the program.

Required Materials: Students will need to purchase a Culinary Arts uniform for this course – estimated cost is \$50.00.

College Majors/Career Opportunities in this Field: Pastry Chef, Sous Chef, Restaurant Owner, Food Sales Representative, Nutritionist, Baker, Short Order Cook, Executive Chef, Food Service Manager, Hospitality, Resort Manager.

DIGITAL MEDIA TECHNOLOGY 1st Year – PM Session 2nd Year – AM Session

Course Description: Students will experience an overview of graphic design, video production, game design, and animation. Topics of study include: digital photography, digital video, movie development and production, screen printing, 2D and 3D animation techniques, digital storytelling, and video game design. Both raster and vector-based design software will be utilized to provide creative, practical solutions to graphic design challenges. Students will create both complex animations and working video games using a variety of tools, including Adobe Animate, Autodesk 3dsMax, GameMaker Studio, Unreal Engine, Blender and Dragonframe. Throughout this course, there is a strong emphasis on problem-solving, effective time management, and working both in teams and independently.

Integrated Academic Credits Available: 1 credit of Art over the course of the two year curriculum. Students can also enroll in Personal Money Management or Science if these credits are needed towards graduation.

Industry Certification/Concurrent Enrollment Credit Options: This course offers Concurrent Enrollment credit through Tompkins Cortland CC. Students can earn several industry certifications in Adobe upon completion of this program.

Required Materials: Students do not need to purchase extra supplies for this course.

College Majors/Career Opportunities in this Field: Graphic Design, Communications, Game Design, New Media, Animation, Advertising Design, Web

Design, Multimedia Artist, Game Artist, UI/UX Designer, Production Assistant, Videographer, App Developer, and Photographer.

EARLY CHILDHOOD

1st Year –PM Session

2nd Year – AM Session

Course Description: Students will examine the physical, social/emotional and intellectual development of children. Topics of study include: child development, child psychology, nutrition, social/emotional learning, special needs of children, and health and safety of children. Students will design and implement lesson plans, care for children in a preschool environment, enhance professional written and oral communication skills, and gain hands-on experience through internships at local preschools, childcare centers and elementary schools.

Integrated Academic Credits Available: Not applicable for his course. Students can enroll in Personal Money Management or Science if these credits are needed towards graduation.

Industry Certification/Concurrent Enrollment Credit Options: This course offers Concurrent Enrollment credit through Tompkins Cortland CC. Students can earn American Red Cross First Aid and CPR certification and Foundations in Health and Safety e-Learning industry certifications upon completion of this course.

Required Materials: Students must purchase a 3 ring binder and a 3x5 Recipe Box for this course – estimated cost is \$10.00.

College Majors/Career Opportunities in this Field: Child Care Provider, Preschool Teacher, Early Intervention Specialist, Speech Therapist, Social Worker, School Counselor, Head Start Director, Teacher Assistant, Special Education Teacher, Preschool Director, Reading Specialist, Nanny.

HEAVY EQUIPMENT

1st Year - PM Session

2nd Year – AM Session

Course Description: Students will be trained in the operation, maintenance, diagnosis and repair of heavy equipment, farm machinery and heavy duty trucks. Topics of study include: principles of the diesel engine, alternative fuel sources, drive train, brakes, suspension and steering, electrical systems, hydraulics, landscaping, agriculture, conservation, welding, and preventive maintenance. This program is designed to meet the growing demand for technicians and operators in the transportation, construction and agricultural fields.

Integrated Academic Credits Available: Not applicable for his course. Students can enroll in Personal Money Management or Science if these credits are needed towards graduation.

Industry Certification/Concurrent Enrollment Credit Options: Students can earn OSHA 10 Industry Certification upon completion of this course.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$50.00.

College Majors/Career Opportunities in this Field: Heavy Equipment Technician, Backhoe Operator, Diesel Mechanic, Skid Steer Operator, Hydraulics Technician, Equipment Manager, Heavy Equipment Operator, Diesel Truck Driver, Highway Superintendent, Construction Laborer, ForkLift Operator.

NURSE ASSISTING & HEALTH OCCUPATIONS

1st Year – PM Session 2nd Year – AM Session

Course Description: Students will learn the skills to be a supportive caregiver through clinical experiences in nursing homes, hospitals, and private homes. Topics of study include: personal care procedures, anatomy and physiology, body mechanics, body structures and functions, medical terminology, nutrition, human biology, disease treatment and prevention, and medical legality issues. During clinical rotations, students perform personal care procedures, learn to take vital signs, and assist patients with mobility using crutches, canes, walkers and wheelchairs. Leadership opportunities are available in this class through the local chapter of the national student leadership organization, HOSA (Health Occupations Students of America), where students participate in leadership training, workshops and national conferences.

Integrated Academic Credits Available: 1 credit of Math, 1 credit of Science and ½ credit of Health over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: This course offers Concurrent Enrollment credit through Tompkins Cortland CC. Students can earn industry certifications in Phlebotomy, Certified Nurse Assistant, Home Health Aide, Personal Care Aide, and American Red Cross First Aid and CPR certification upon completion of this course.

Required Materials: Students will need to purchase scrubs, shoes, and a watch for this course – estimated cost is \$50.00. Students are required to have completed a yearly physical exam and be up to date on all immunizations, including a flu vaccine and two PPD inoculations, in order to participate in the mandatory clinical rotations.

College Majors/Career Opportunities in this Field: Home Health Aide, Certified Nursing Assistant, Physical Therapy Aide, Phlebotomist, Registered Nurse, Respiratory Therapist, Emergency Medical Technician, Licensed Practical Nurse, Surgical Technician, Nutritionist, Physician Assistant.

SPORTS CONDITIONING & EXERCISE SCIENCE

1st Year – PM Session 2nd Year – AM Session

Course Description: Students explore the science of human health through studying the systemic effects of exercise and cardio-conditioning, strength training, and on-going fitness assessment. Topics of study include: resistance work, aerobic and anaerobic conditioning, body fat loss/musculoskeletal gain, flexibility and mobility, nutrition and weight management, anatomy and physiology, and fitness safety. Students will design, implement, modify, track and update personal fitness training programs based on client individual needs and goals.

Integrated Academic Credits Available: 1 credit of Math, 1 credit of Science, and 1 credit of Physical Education over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: This course offers Concurrent Enrollment credit through Tompkins Cortland CC. Students can earn American Red Cross First Aid, CPR and AED certifications, and they may be eligible to take the Certified Personal Trainer Exam through the National Academy of Sports Management (NASM) upon completion of the course.

Required Materials: Students must have athletic attire and sneakers, class trainer shirt, and First Aid/CPR/AED materials for this course – estimated cost is \$60.00.

College Majors/Career Opportunities in this Field: Recreational Therapy, Athletic Training, Sports Management, Physical Therapy, Coaching, Fitness Instructor, Certified Personal Trainer, Gym Manager, Chiropractor, Strength and Conditioning Coach, Orthopedic Technician, Recreation and Sports Director.

WELDING

1st Year – PM Session

2nd Year – AM Session

Course Description: Students will learn to manipulate metal using a variety of welding techniques including MIG, TIG, arc welding, and plasma cutting. Topics of study include: metallurgy, flame cutting, blueprint reading, set up and operation of drill press machine, and cutting and shearing techniques. Students will practice these methods on aluminum, stainless steel, and other materials. Students can create unique designs by using the CNC (Computer Numerical Control) Plasma Machine or developing metal sculpture projects.

Integrated Academic Credits Available: 1 credit of Math and 1 credit of Science over the course of the two year curriculum.

Industry Certification/Concurrent Enrollment Credit Options: Students can earn OSHA 10 Industry Certification upon completion of this course.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$50.00.

College Majors/Career Opportunities in this Field: CNC Operator, Tool and Die Maker, CAD Programmer, Welding Technician, Fabricator, Pipefitter/Steamfitter, HVAC Technician, Metal Sculptor, Underwater Welder, Boilermaker, Sheet Metal Worker, Plumber.

In addition, the Career and Tech Center offers classes in Physical Education, Math and Science for those students who need to complete additional graduation requirements. A course description is listed below for each of these courses. Course descriptions are listed below.

PERSONAL MONEY MANAGEMENT

Offered during 1st year or 2nd year of CTE Program

Course Description: This course is designed to develop a thorough understanding and mastery of the arithmetic processes involved in financial literacy in order to help students plan and manage personal finances by making educated decisions about money. Topics of study include: percents, budgeting, earning income and paying taxes, simple and compound interest, credit cards and installment buying, home ownership, banking transactions, and finance. Students will examine current world economic conditions focusing on how these can impact their personal economic situations and learn how to apply mathematical principles to financial matters.

Note: This course satisfies one (1) credit of Math towards graduation. This course offers Concurrent Enrollment credit through Tompkins Cortland CC.

SCIENCE

Offered during 1st year or 2nd year of CTE Program

Course Description: This course provides students with authentic science that correlates with their Career and Tech Program. Topics of study include: concepts associated with physical science, scientific process and investigation, and introductory chemistry. Students will conduct lab work that is related to science concepts taught through the different technical fields offered through Career and Technical Education.

Note: This course satisfies one (1) credit of Physical Science towards graduation.

NEW VISIONS PROGRAMS

Director: Ms. Cindy Walter

Principal: Mr. Kevin Casler

Phone: (607) 257-1551

Website: <https://www.tstboces.org/newvisions>

New Visions is an honors level program that offers seniors a non-traditional, academically challenging senior year. These programs are demanding and extremely rewarding for highly motivated, mature, responsible, and academically capable students. New Visions students acquire knowledge through independent and cooperative learning, both in the classroom and in the professional work setting. The New Visions programs are highly regarded by collegiate administrators as evidence of a student's motivation, intelligence, and desire for success.

New Visions students will divide their week between classroom theory and instructional days where students will discuss literature, global concerns, and science-related topics in an integrated academic learning environment. Students will work on projects independently and in groups, while attaining mandatory credits for graduation. In addition, students will participate in rotational experiences where they will work with professionals, graduate students, and college professors that work within their field of study.

The New Visions programs are held daily from 10:00am – 2:00pm daily at Cornell University or Cayuga Medical Center. Students receive high school credit for English 12 Honors, Participation in Government and Economics, two elective science credits, as well as Concurrent Enrollment credits from Tompkins Cortland CC. Students are expected to be professional, courteous and to strictly adhere to the guidelines set by their teachers and mentors.

Interested students must apply to their specified New Visions program during the early portion of the second semester of their junior year. Following the submission of the completed New Visions application, qualified students will be invited to participate in a formal interview. Acceptance into a New Visions Program is very competitive. The selection process is based on grades, recommendations, an interview and an essay, among other criteria. Students who enroll in the New Visions Programs intend to pursue a competitive college or university upon graduation.

NEW VISIONS: ENGINEERING

This innovative and exciting course is located in Thurston Hall, allowing students a commanding view of the Cornell University Engineering Quad and the campus beyond.

The curriculum is designed for high-achieving high school seniors who are interested in pursuing higher education, and eventually, a career in engineering. The program focuses on the study and application of physics and engineering concepts, along with on and off campus engineering experiences, plus integrated core academics that discuss applied topics related to engineering. The engineering experiences will include touring engineering labs throughout Cornell University, visiting local and regional engineering companies, participating in topical lectures from engineering faculty and experts, and working in the PARADIM material science labs. Students are actively engaged in engineering design challenges throughout the year that touch on every major branch of engineering - mechanical, electrical, environmental, genetic and chemical.

Students will receive integrated high school academic credits for the following courses: English 12 Honors, Economics/Participation in Government Honors, Fundamentals of Engineering, and PHSC 211 - Physics I: Mechanics and Heat upon completion of this program.

Concurrent Enrollment Credits: PHSC 211 - Physics I: Mechanics and Heat from Tompkins Cortland CC and Engineer Your World from University of Texas at Austin are earned upon completion of the program.

NEW VISIONS: HEALTH AND MEDICAL SCIENCES

This exciting and challenging program is located at the Cayuga Medical Center in Ithaca. The curriculum immerses students into the healthcare field by engaging them in a combination of classroom learning and clinical rotations throughout the hospital, along with independent medical practices and health agencies in the community. Through daily involvement with medical professionals, students become more educated about individual healthcare professions. The students assist with patient care, learn laboratory and diagnostic procedures, and are treated as a competent healthcare provider. Students recognize the importance that every role plays in helping ensure quality patient care. New Visions students integrate their assigned reading, research and debates into their rotations to see first-hand how their education is applied to daily, real-life situations.

Students will receive integrated high school academic credits for the following courses: English 12 Honors, Economics/Participation in Government Honors, Health and Medical Sciences, and BIOL 131/132 - Human Anatomy and Physiology upon completion of this program.

Concurrent Enrollment Credits: BIOL 131 - Human Anatomy and Physiology I and BIOL 132 - Human Anatomy and Physiology II are earned upon completion of the program.

NEW VISIONS: LIFE SCIENCES/APPLIED SCIENTIFIC RESEARCH

This unique, fun and innovative program is located at the Guterman Lab in the CALS Department at Cornell University. Students will explore numerous career opportunities in the science of agriculture, environmental research, food security, and national resources. Every student works closely with their New Visions teacher to design rotational experiences that allow them to explore their unique career interests and goals for the future. Rotational experiences take place in the veterinary hospital and numerous research laboratories on the Cornell University campus. These experiences can focus on horticulture, veterinary medicine, forestry, land and water conservation, outdoor education, agricultural business, sustainability, fishery-wildlife management, biological engineering, and/or environmental policy. The course is designed to attract students who are interested in life science and inquiry, and who are not afraid of working hard, both independently and with others, including professionals. Leadership opportunities are available in this class through the local chapter of the national student leadership organization, FFA (Future Farmers of America), where students participate in leadership training, workshops and national conferences.

Students will receive integrated high school academic credits for the following courses: English 12 Honors, Economics/Participation in Government Honors, Applied Scientific Research, and ENVS 110/111 - Food Systems upon completion of this program.

Concurrent Enrollment Credits: ENVS 110 - Food Systems Seminar I: Introduction to the US Food System and ENVS 111 - Food Systems II: Food Movements are earned upon completion of the program.

WORLD OF WORK PROGRAMS

Director: Ms. Cindy Walter

Principal: Mr. Kevin Casler

Phone: (607) 257-1551

Website: <http://tstboces.org/cte>

The World of Work program assists high school students with a variety of instructional needs. Classes promote self-esteem and positive socialization, as well as cognitive and motor skills development through a progressive curriculum. The classes integrate students into the most appropriate and least restrictive Career and Tech setting, offering instruction in both generic and job specific skills, which are important for competitive employment and independent living. Students will work on employability training skills, including: attendance, punctuality, hygiene, organization and efficiency, building confidence, taking responsibility and showing respect. The goal is to create a personal skill set for each student to help them maintain employment upon graduation. World of Work classes are offered in the AM and PM for a minimum of two hours each day.

CAREER EXPLORATION PROGRAM (Grades 11 & 12): **AM or PM Session**

The Career Exploration Program (CEP) provides students with the opportunity to explore realistic career options available in our community. Generally, students who enroll in this program are nearing completion of their high school career, and this is typically the capstone course leading to entry-level work. Most CEP students have taken Food Services and/or Outdoor Recreation Services prior to enrollment in this course. Students will have the opportunity to participate in non-paid internship experiences during the school year. These work experiences are based on the student's interests and abilities, and individual progress is closely monitored and evaluated. Transportation is provided to and from the work site. Students work directly with a job-site mentor (an employee), learning general and technical job skills in the field, and students receive a written work evaluation at the end of each internship.

FOOD SERVICES (Grades 9 – 12): **AM or PM Session**

The Food Services Program develops a foundation of skills necessary to become an entry-level food service employee. A balance of theory and kitchen skills gives students real world experience. Students work in groups to learn to properly use culinary tools and equipment, and they are encouraged to develop and use their creativity in the selection and presentation of their recipe execution. Additional learning in retail sales reinforces student's interpersonal and job skills, and they explore related food service occupations. This class involves all participants to use their literacy, math and science skills as it relates to the culinary field.

OUTDOOR RECREATION SERVICES (Grades 9 – 12): AM or PM Session

The Outdoor Recreation Services Program exposes students to a wide range of job skills and employability experiences. The curriculum has a heavy emphasis on the repair and maintenance of small engine power equipment, including: ATV's, lawn mowers and chainsaws. Students will also be working with aspects of traditional agriculture mechanics, such as: MIG Welding, basic framing, plumbing, wiring, and tractor operation and maintenance. Woodworking and basic construction skills are developed throughout the curriculum.

Joshua Bacigalupi, Superintendent of Schools

Board of Education:

Margie Malepe, President
Heather Williams, Vice President
Kelly Daley
Beverly Dodici
Bridget Dutcher

Rhonda Kowalski
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Director of Physical Education and Athletics, Asst. Principal

Mr. Todd Kwiatkowski, ext. 5201
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High School Counseling Office Grades 9-12

Ms. Sarina Perreault, Counseling Assistant, ext. 5226
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High School Department Chairs (2020-2021)

ART	Elizabeth Sprout
BUSINESS	Linda Bruno
ENGLISH	Heather Brecht
FOREIGN LANGUAGE	Rebecca Tice
MATH	Daniel Miller
MUSIC	Robert McMahan
PHYSICAL EDUCATION	Joanne Holland
SCIENCE	Travis Crocker/Karen Taylor
SOCIAL STUDIES	Matthew Gardner
SPECIAL EDUCATION	Jaime Schmitt
TECHNOLOGY / FACS	Khristopher Oursler / Janet Vorstadt