

South Seneca High School 2016-2017 Course Guide

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An Important Note for Both Parents and Students

The South Seneca School District's Board of Education amended Section 4750-R of the Board Policy during the 2012-13 academic year. This amendment imposes consistent guidelines for minimum graduation requirements with the State Education Department's minimum requirements for graduation, beginning with the Class of 2013.

The Board has also approved defining a student's class standing by the number of credits earned. The following table illustrates the credit cutoffs:

<u>Minimum number of credits needed</u>	<u>Class Standing</u>
5 ½	Sophomore
11	Junior
16 ½	Senior

Class standing in September is retained for the entire year regardless of course load. The exception pertains to fourth year students who hold Junior status at the beginning of the year. A revised credit count will take place in February to determine Senior status and graduation eligibility.

Art

Course Title: Studio Art

Credit: 1

Prerequisite(s): Middle School Art

Studio Art is a beginning level, full-year art course, for grades 9-12. This course meets the Regents' Fine Arts requirement for graduation, is a pre-requisite for all advanced level elective art courses, and is a required course for all art majors.

Studio Art introduces a variety of art materials, tools, processes, vocabulary, resources, history and culture. Explore drawing, painting, printmaking, sculpture, and ceramics. Develop technical skills, personal expression and style, and creative thought processes. Analyze and reflect upon your own artwork, as well as the works of your peers and other artists. In addition to projects, Studio Art includes sketchbook assignments, critiques, a portfolio, and an art museum field trip. **All art courses require work time outside of class.**

Students of all artistic and ability levels are able to be successful with adequate participation and effort. Studio Art will give you the basic background necessary to create, understand, assess and appreciate visual art, and to successfully continue on into other art courses.

Course Title: Sculpture

Credit: 1

Prerequisite(s): Studio Art

Sculpture is an advanced level, full year elective art course for grades 10-12. Studio Art is a pre-requisite for this class.

Work with carving, casting, construction, and modeling techniques to create three-dimensional artworks from clay, wood, glass, paper, and other materials. In addition to projects, Sculpture includes critiques, a sketchbook, a webfolio (digital portfolio), a field trip, and a final project.

All art courses require work time outside of class. As an artist, you will discover that the level of your artistic ability and satisfaction grows with your participation, effort, and time commitment.

Course Title: Photography A

Credit: ½

Prerequisite(s): Studio Art

Photography A is an advanced level, half-year elective art course for grades 10-12. Studio Art is a pre-requisite for this class.

Discover the evolution of photography and how it is both an art and a science. Use a 35mm camera and film to take photographs, and then explore the darkroom chemicals and equipment to develop your negatives and print fine art black and white photographs. Professionally finish off your prints with a dry-mounting press. Develop the eye and style of a photographer by learning about a variety of techniques and famous photographers. Emphasis will be placed on composition, lighting, and expression.

In addition to projects, Photography A includes critiques, reading and homework assignments, a webfolio (digital portfolio), a field trip, and a final project.

All art courses require work time outside of class. As an artist, you will discover that the level of your artistic ability and satisfaction grows with your participation, effort, and time commitment.

NOTE: Photography A requires the purchase of some supplies, which totals approximately \$80 for the semester. You do NOT need to pay this all at once. You will need \$30 at the start of the course. Cash only; no checks or charging.

Course Title: Photography B
Prerequisite(s): Photography A

Credit: ½

Photography B is an advanced level, half-year elective art course for grades 10-12. Photography A is a pre-requisite for this class.

Continue taking, developing, printing, and mounting photographs, while you also learn about and use filters, tinting, toning, coloring, and other creative and experimental techniques. In addition to projects, the course includes a video series, critiques, a webfolio, and a final project.

All art courses require work time outside of class. As an artist, you will discover that the level of your artistic ability and satisfaction grows with your participation, effort, and time commitment.

NOTE: Photography B requires the purchase of some supplies, which totals approximately \$80 for the semester. You do NOT need to pay this all at once. You will need \$30 at the start of the course. Cash only; no checks or charging.

Course Title: Creative Crafts - 1st Semester
Creative Crafts - 2nd Semester

Credit: ½ each

Prerequisite(s): Studio Art, DDP, or DMP

Creative Crafts is an advanced level, half year elective art course for grades 10-12. Studio Art is a pre-requisite for this class. Students have the option of taking this course for one semester (either in the fall or spring) and earn ½ credit, or for both semesters and earn 1 credit.

Explore traditional and contemporary crafts by working with a variety of techniques and materials, such as clay, metal, wood, paper, glass, textiles, and/or fibers. Express your creativity as you learn about two- and three-dimensional design and hand crafted objects from cultures around the world. Different projects and content will be covered during each semester.

In addition to projects, Creative Crafts includes critiques, a webfolio (digital portfolio), a field trip, and a final project.

All art courses require work time outside of class. As an artist, you will discover that the level of your artistic ability and satisfaction grows with your participation, effort, and time commitment.

Course Title: Ceramics*

Credit: 1

Prerequisite(s): Studio Art

Ceramics is an advanced level, full year elective art course for grades 10-12. Studio Art is a pre-requisite for this class.

Explore hand-building and wheel throwing tools and techniques to create bowls, mugs, plates, containers, and other vessels from clay. Work with glazes, stains, and engobes to decorate and finish your ceramic pieces. In addition to projects, Ceramics includes critiques, a sketchbook, a webfolio (digital portfolio), a field trip, and a final project.

NOTE: Since Ceramics requires drying and kiln firing time, students work on 2 to 3 projects simultaneously. Good planning and time management skills are necessary.

All art courses require work time outside of class. As an artist, you will discover that the level of your artistic ability and satisfaction grows with your participation, effort, and time commitment.

Course Title: Drawing and Painting*

Credit: 1

Prerequisite(s): Studio Art

Drawing and Painting is an advanced level, full year elective art course for grades 10-12. Studio Art is a pre-requisite for this class.

Drawing and painting are fundamental skills for artistic expression in all media. Explore a variety of drawing and painting materials and techniques. Develop your creativity as you transform idea sketches into final artworks. Learn how to accurately represent what your eyes see, develop composition skills and increase your understanding of color theory. The course will begin with drawing and then transition into painting.

In addition to projects, Drawing and Painting includes critiques, a sketchbook, a webfolio (digital portfolio), and a final project. A field trip and/or guest artist may also be included.

All art courses require work time outside of class. As an artist, you will discover that the level of your artistic ability and satisfaction grows with your participation, effort, and time commitment.

Course Title: Printmaking*

Credit: 1

Prerequisite(s): Studio Art

Printmaking is an advanced level, full year elective art course for grades 10-12. Studio Art is a pre-requisite for this class.

Explore different types of printmaking processes and materials to create monotype, relief, drypoint, collagraph, etching, gum transfer, and/or silkscreen prints. Develop your artistic skills and creativity as you transform idea sketches into final artworks.

In addition to projects, Printmaking includes critiques, a sketchbook, a webfolio (digital portfolio), a field trip, a guest artist, and a final project.

Business

“The Mission of the Business Education Department at South Seneca High School is to provide all students with a fundamental understanding of how the business world functions, and how they, as students, can use this information to make more educated decisions as they relate to their future beyond high school so that they will have the ability to make a positive contribution to our community and society.”

Course Title: College Success Seminar

Credit: ½

Prerequisite: Senior Level Student or Guidance Recommendation

*** Students completing this course with an 85 or better will earn 3 credit hours toward college from TC3 (ACAD 150 equivalent).**

This course promotes students’ personal adjustment and academic success in their first college semester. Students will conduct interest surveys and research colleges that may interest them. Topics of the course will include adjusting to college life, developing essential learning and time management strategies, developing goal setting and decision making strategies, learning about college resources, and placement testing. Course material will also include information about the Financial Aid Process.

Course Title: Introduction to Business

Credit: ½

Prerequisite: None

Students will learn business terminology, business concepts, how businesses are set up and organized. Students will learn about the various economic systems used throughout the world and how they fit into our mixed market economy. Students will explore various career areas and explore what interests they have so that they may make better decisions as they relate to what classes they may want to pursue in high school and beyond. Students will be introduced to how financial markets are set up and operate. Entrepreneurship will also be introduced. An emphasis will be placed on the role that money plays in our economic system

Introduction to Business should be taken prior to taking any other business courses as it introduces the majority of the terminology and concepts used in other advanced business courses.

Course Title: Technical Writing/English 12

Credit: 1

Prerequisite: Keyboarding, successful completion of English 11 and Teacher Approval.

Technical writing is a senior level class aimed at the student who is planning on joining the workforce after graduation, who is planning on attending a technical school, or having a business related major in college. A variety of styles of writing and technical writing will be covered, including: grammar and punctuation review, letter formats, reports, forms, and resumes. Students will also gain an insight into the realm of public speaking. Students will gain an understanding and appreciation of the writing process used in the workplace through models, practice exercises, and writing assignments related to the actual workplace. Students will learn the “Pyramid Approach” to writing as it relates to every day communications. **Technical Writing/Applied Communications will fulfill the fourth unit of required English as prescribed by the New York State Department of Education.**

Course Title: Microcomputer Applications

Credit: ½

Prerequisite: Keyboarding

Through this course students will become familiar with the various applications of Microsoft Office 2013. Students will learn about the Windows 8 Operating System. Application Software will include Internet Explorer, Microsoft Word, and Excel. Students will gain an insight as to how the various applications can work together. Students will also gain an insight as to the various internal and external parts of a personal computer and how they operate.

Course Title: Digital Media Production

Credit: 1

Prerequisite(s): None

This course serves as an introduction to and exploration of media based communication. Its objective is to provide students with hands-on production experience while also familiarizing them with relevant and controversial debates surrounding media issues. Students will develop basic technical and conceptual skills for production and take a critical look at computer applications and media culture. A variety of media examples including television program excerpts, commercials and movies will be presented for analysis. Areas of exploration include media literacy, audio editing, storytelling, camera/tripod operation, video editing, animation, and DVD production. **This course may be applied as either business or art credit. Students successfully completing the DVD portion of this course can earn 1 college credit hour from TC3. This credit can often be transferred from TC3 to other institutions.**

Course Title: Commercial Art and Design

Credit: 1

Prerequisite(s): Studio Art

This course is designed to increase student understanding of various manual and digital image techniques that are used by designers in commercial art settings. A major focus will be on creative problem solving, and how designers develop ideas for clients that communicate a desired message to a specific audience. Units explored include principles of design and layout, design history, advertising, logo design, typography, and package design, among others. In addition, students will explore professional work-related skills and various careers related to the graphic arts industry. Students will learn different ways to communicate their ideas through discussion, journal writing, critiques, and projects. **This course may be applied as either business or art credit.**

Course Title: Web Design

Credit: ½

Prerequisite(s): None

Web Design is a hybrid course bringing together technical computer skills, business-related marketing concepts, and the aesthetics of design appeal. Students will explore the planning process of web page design including the establishment of logically arranged hierarchies. They will gain an understanding of the mechanics of web page construction including the manipulation of text and graphics, use of hyperlinks, and arrangement of structural frames and forms. In addition, students will demonstrate effective use of the principles of design. Students will develop a familiarity with the html and CSS markup languages. Over the course of the semester, students will work individually to design a personal web page. **Students completing this course with at least an 85 can earn 1 college credit hour from TC3. This credit can often be transferred from TC3 to other educational institutions**

Course Title: College Accounting

Credit: 1

Prerequisite(s): Recommended for Juniors & Seniors

Content of this course will parallel the first semester of a college introductory accounting course and involves more analysis than the traditional high school accounting class. The course introduces basic accounting concepts, principles, and practices for a service or merchandising business at an accelerated pace. Students are introduced to accrual based accounting. Emphasis is placed on adjustments, special journals, and financial statements. **Students completing this course with at least an 85 and passing a TC3 exam can earn 4 credit hours from TC3. This credit can often be transferred from TC3 to other educational institutions.** As this course is given with college-level expectations, consistent study habits and high motivation are required. Students who are comfortable working independently and who get satisfaction from being accurate can expect to do well in this class.

Course Title: Introduction to Programming

Credit: ½

Prerequisite(s): None

With the increased use of computers, smartphones, and other electronic devices, interest in program and application development has grown. In addition, the computer and robotic automation of many traditional manufacturing jobs today frequently requires some knowledge of programming. This is a course for students who wish to learn the basics of computer programming either for their own curiosity or as part of a career plan; no prior programming experience is required. The course will introduce basic programming terminology, concepts, and best practices. Students will learn to write programs in the JAVA language using such constructs as variables, statements, functions, loops, arrays, and classes. Good programming habits and problem solving strategies will be covered, as well as program design, flow charting and architecture, and debugging techniques.

Course Title: Advanced Programming

Credit: ½

Prerequisite(s): Introduction to Programming

This course is for students who would like to explore concepts in programming beyond the introductory level. Specifically, students will be looking at ways to develop code that works interactively with the world around us, either through the internet or with physical objects. An overview of Javascript will be followed by more in-depth exploration of the Python programming language. Students will be encouraged to work towards the solution of an originally conceived, functional and purposeful programming problem.

Course Title: Digital Literacy

Credit: ½

Prerequisite: None

Near universal use and increasing reliance on the internet for research, global collaboration, media creation and distribution of information offers a wealth of new possibilities. This course serves as an introduction to these resources and how they can be harnessed to improve academic performance. Students will use free internet tools to collect, evaluate, synthesize, share and comment on resources from the web and the work of others as well as their own. An overview of internet safety will be followed by a unit exploring effective and varied internet searching with particular emphasis on determining site reliability and relevance. A deeper understanding of copyright and creative commons rules will be developed. Finally, web 2.0 tools such as wikis, blogs & microblogs, podcasts, RSS feeds & aggregators, web portals, social networking, and social bookmarking will also be examined and tested in a safe and secure environment. Students will educate others in

the school and/or greater community by sharing through the internet using the tools explored in class. Grading will be based on electronically gathered resources, reflections, collaboration /contribution, class participation and quizzes.

Course Title: Business Law

Credit: 1

Prerequisite(s): None

The course emphasis is on the individual as he/she encounters business law in personal, family, and occupational life. It is introduced with an overview of what law is, why it is needed, and how it affects both society and the individual. By studying true situations and cases, students will learn how business and personal law impacts the real lives of young people and adults as well. The remainder of the course is a study of the legal rules applicable to business contracts with special emphasis on personal/business liability, sales, payments, renting and owning property, wills, and family law. This is a good preparatory course for a student planning to follow a college business management program. **Business law can be applied towards a 5th credit social studies sequence.** Students will be graded on tests, homework assignments, class participation, case studies, and projects.

Course Title: Economics

Credit: ½

This class is intended to give students an opportunity to examine topics in some depth, applying analytic techniques of the discipline. An attempt has been made to give the course some flexibility with respect to the abilities and previous preparation of students as well as to the resources available in the school. Economics represents half of the senior year Social Studies requirement.

Course Title: Marketing*

Credit: 1

Prerequisite(s): None

This course introduces students to the important role that marketing plays in our economic system and examines its effect on our daily lives. Content revolves around the basic marketing functions: selling, promotion, pricing, purchasing, product/service, and idea planning and distribution. Projects, including marketing research, are developed to give students hands-on experience using these functions. Students will be introduced to career opportunities in marketing and the training necessary to obtain them.

***This course will not be offered in the 2016-17 school year.**

Course Title: Small Business Management*

Credit: 1

Prerequisite: None

This course is designed to provide the student with an introduction to the concepts of business management. The intent is to balance economic and regulatory considerations with management skill development. Through a variety of activities the course content should enable the student/entrepreneur to successfully start and maintain a small business. As a final project, students will develop a real business plan.

***This course will not be offered in the 2016-17 school year.**

Course Title: Advanced Digital Media Production*

Credit: 1

Prerequisite(s): None

This course continues exploration begun in the basic Digital Media Production class. Students will be expected to build upon concepts and skills learned in previous coursework and to advance both their understanding of, and skills in producing, electronic media-based communication. Students will be given increased project design authority, working in both teams and individually to produce media relevant to themselves, our school, and the local community. Advanced editing and special effects techniques will be explored. Completed projects will be formally presented to an appropriate audience. **This course may be applied as either business or art credit.**

***This course will not be offered in the 2016-17 school year.**

English

Course Title: English 9

Credit: 1

Prerequisite: Successful completion of English 8

Freshman students complete a Regents program that follows NYS Standards and culminates in a Regents exam during their Junior year. Students study a variety of literature genre, which may include Great Expectations, Obasan, Feed, a Steinbeck novel, The Odyssey, Ordinary People, The Pearl, A Raisin in the Sun, Romeo and Juliet, and numerous short stories and poems. Writing centers on the essay, but also includes weekly annotated readings that will dovetail into a major research paper and other creative and oral projects. Grammar, punctuation and vocabulary units are also pursued. Ongoing career exploration begins in 9th grade and Sean Covey's The 7 Habits of Highly Successful Teens coupled with organizational activities help students to transition from middle school to high school.

Course Title: English 10

Credit: 1

Prerequisite: Successful completion of English 9

Tenth grade English explores a variety of works from American and World Literature, such as *Macbeth*, All Quiet on the Western Front, Hiroshima, and various poems and short stories. Writing assignments will include Regents practice essays and two academic research projects. **Successful completion of the English 10/Global History II research paper is required in order to earn course credit.** All assignments are designed to continue developing essential skills in the areas of reading, writing, speaking, and listening.

Course Title: English 11

Credit: 1

Prerequisite: Successful completion of English 10

English 11 primarily explores American Literature. Students simultaneously expand their vocabulary, both for college testing (SAT and ACT) and to enhance their understanding of the materials read in American Literature. Extensive readings are completed in both novels and articles distributed to students. All students are required to take and pass the Comprehensive English Regents. This exam is a two-day exam, three hours each day. Activities and assignments prepare students for this exam. Students are required to keep a notebook, take regular notes, and remain current on assignments. Writing assignments are varied and extensive and include critical essays and other forms of expository writing.

Course Title: English 12

Credit: 1

Prerequisite(s): Successful completion of English 11

In an effort to prepare senior English students for that real world they are about to enter, students in English 12 will examine the role that literacy plays in everyday life. Students will read a variety of genres, with a focus on non-fiction essays and novels, in order to discover new ideas and develop their own. Students will write with purpose, essays for college applications, resumes, and cover letters to potential employers. Finally, students will speak and listen to peers, to parents, to community members, and to teachers, all in an effort to enhance their communication skills.

Course Title: English 101/102: College Writing and Literature

Credit: 1

Prerequisite: Successful completion of English 11 Honors or teacher recommendation

Through a comprehensive introduction to the major aspects of literature, students develop and refine an effective writing process of planning, invention, drafting and revision. Various rhetorical modes including, but not limited to, literary analysis, persuasive, research (APA & MLA), narrative, descriptive, and process help students understand fiction, drama, and poetry as forms of literary expression, as well as a variety of non-fiction forms covering diverse topics. The student is responsible for nightly in-depth assignments, organizing his/her ideas in written form, and active participation in classroom discussion. The course is taken for English credit and college credit through TC3. Students have the option to take the AP English exam in May, for which voluntary review classes will be offered.

Course Title: Technical Writing

Credit: 1

Prerequisites: Successful completion of English 11 including passing the Comprehensive English Exam, and teacher recommendation

Technical Writing/Communication is a senior level class aimed at the student who is planning on either taking a business related major during college or planning on joining the workforce directly after graduation. Technical Writing will fulfill the required fourth unit of English for seniors and if you are completing a 5-Unit Occupational Education sequence (Business, Technology, Art, Music, Family and Consumer Science, or a BOCES related program). Students will learn and improve their communication skills for the world of work and/or entering a post secondary institution. Students will review grammar and punctuation rules as they relate to written communications in the business world. Students will learn the "Pyramid Approach" to writing reports, memos, and letters. Students will refine their abilities to exercise leadership, negotiate, work with diversity, and participate as a team member. A unit of Public Speaking will be included in the course. Students will create an electronic portfolio/journal as an accumulation of their accomplishments throughout this course. **This course may also count as a credit towards completion of a Business Sequence.**

Foreign Language

Course Title: Spanish I

Credit: 1

Prerequisite(s): None

This full year introductory course is for students who have never taken Spanish before OR who took Spanish in middle school but did not pass the Checkpoint A examination. Students enrolled in this course have little or no proficiency in the language. The students will learn basic high frequency vocabulary topics, verbs in the present tense and other basic grammar points. *Successful completion of this course meets the mandatory one credit requirement for high school graduation.*

Course Title: Spanish II

Credit: 1

Prerequisite(s): Spanish I

This course is offered to students who have passed the Checkpoint A Exam in 8th grade or who have successfully completed Spanish I. It emphasizes listening and speaking skills in the target language. The primary goal this year is for the student to become more proficient in Spanish and to increase the students' knowledge and understanding of the language. Many grammar concepts and verb tenses will be practiced. Students are expected to communicate predominantly in Spanish.

Course Title: Spanish III

Credit: 1

Prerequisite(s): Spanish II

This course is offered to students who have successfully passed Spanish II. Spanish III prepares students for the Checkpoint B examination. Students will enhance their reading, writing, listening and speaking skills within the context of NYS World Languages Checkpoint B thematic vocabulary units. More complex grammar concepts and verb tenses will be practiced. Students are expected to communicate predominantly in Spanish.

Course Title: Spanish IV

Credit: 1

Prerequisite(s): Spanish III

This class is offered to students who have successfully completed Spanish III. This is a CollegeNow concurrent enrollment course with TC3. Successful course completion will give them credit for Intermediate Spanish 201 and 202 (6 credits total). The majority of the instruction will be conducted in Spanish. Students will be expected to contribute to class discussions on a variety of topics. A review of all major verb structures will be incorporated into the units. Students will interact with various readings, produce projects and make presentations to enhance their knowledge and understanding of Spanish.

Course Title: Spanish V

Credit: 1

Prerequisite(s): Spanish IV

This class is offered to students who have successfully completed Spanish IV. This is a CollegeNow concurrent enrollment course with TC3. Successful course completion will give them credit for Intermediate Spanish – Hispanic Literature & Culture 280 and 281 (6 credits total). Major emphasis is placed on helping students improve their oral communication skills and reading comprehension. Students will explore different aspects of

the cultures, history, and current events of the Spanish speaking world. The majority of the instruction will be conducted in Spanish.

Health

Course Title: Sr. High Health Education

Credit ½

Prerequisite(s): Health 8

The general purpose of Health is to teach, re-teach and allow students to practice lifetime skills that will promote physical, social and mental well-being. There is an emphasis on challenging students to go beyond viewing health as just “being free of disease”. The main focus of this class is to promote prevention of physical, social and mental problems so that “Quality of Life” can be optimized.

Course Title: Personal Health and Wellness

Credit ½

Prerequisite: Health

The purpose of this course is to improve student awareness concerning those issues governing our health. This course will isolate some of the most confusing health-related problems and provide data and facts to help students to make decisions that will optimize their personal health. Topics include healthy relationships, tobacco use, alcohol, nutrition, fitness, disease and managing stress. Dual-credit is offered in conjunction with TC3.

Course Title: Responding to Emergencies

Credit ½

Prerequisite: Health

This fun and active class will teach you what to do in an emergency before medical help arrives. This course will prepare you to make appropriate decisions regarding first aid care and to act on those decisions. After completing the class students will be certified by the American Red Cross in CPR, AED, and First Aid. Dual credit is offered in conjunction with TC3.

Math

Course Title: Pre Algebra

Credit: 1

Prerequisite: 8th grade Mathematics teacher recommendation

In Pre-Algebra, students will be focusing on three important themes. The first theme is applied arithmetic where students will be working on arithmetic operations through real-life scenarios. The second theme is pre-algebra where students will be working on their basic algebraic skills such as solving equations, simplifying expressions and graphing equations. The last theme is pre-geometry where students will be using their arithmetic skills and algebraic skills in geometric topics.

Course Title: Algebra I CC

Credit: 1

Prerequisite: Successful completion of Math 8 or Pre-Algebra

This course leads to the mandated Algebra I Regents Exam. Topics include linear, quadratic, and exponential functions, solving equations and inequalities, and statistics, as outlined in the NYS Common Core standards. Algebra Regents exam in June.

Course Title: Geometry CC

Credit: 1

Prerequisite: Successful completion of Algebra I CC and Algebra I regents

This course is the second of three leading to a Regents Diploma with Advanced Designation. Topics of study include Euclidean geometry (including an emphasis on formal proof), trigonometry, analytic geometry, transformations and additional topics as outlined in the New York State Common Core standards. Geometry Regents Exam in June.

Course Title: Geometry CC (Honors)

Credit: 1

Prerequisite: teacher recommendation for 9th grade accelerated students

This course, for students enrolled in the Honors sequence, is the second of three leading to a Regents diploma with Advanced Designation. The course includes all the topics of study in Geometry Regents and additional topics for enrichment. Geometry Regents Exam in June.

Course Title: Local Geometry

Credit: 1

Prerequisite- students who passed the Algebra I class but failed the regents

This course is for students who have not passed the Algebra I Regents exam but passed the Algebra I class and need additional math support to pass the Algebra I regents. Topics include linear, quadratic, and exponential functions, solving equations and inequalities, and statistics, as outlined in the NYS Common Core standards. Students will be taking the Algebra I regents in January. During the second semester, students will be introduced basic geometry skills and their applications to real-life situations. Local final or project in June.

Course Title: Algebra II CC/ Trigonometry

Credit: 1

Prerequisite: successful completion of Geometry CC/ Geometry CC Honors

This course is the third of three leading to a Regents diploma with Advanced Designation. This is a fast-paced, rigorous course and the level of abstraction required is much higher than that of previous math courses. Topics of study include algebra, rational expressions, complex numbers, functions, trigonometry, logarithms, probability, statistics, series and sequences. Regents in June.

Course Title: College Statistics

Credit: 1

Prerequisite(s): Geometry or Algebra II

This is a general introductory course that will give each student knowledge of statistics through descriptive and inferential concepts. Each student will be exposed to real-world applications in many fields. Some of the topics that will be covered in the twenty weeks are: graphic presentation of data, measures of central tendency, measures of dispersion, art of deception, bivariate data, linear correlation and regressing, probability concepts

and distributions, sample variability hypothesis testing, and making inference on one and two populations. Students successfully completing this course will earn both high school and college credit. Class enrollment needs to be with teacher recommendation. Dual-credit is offered in conjunction with TC3. 3 credits

Course Title: Pre-calculus

Credit 1

Prerequisite(s): Successful completion of Algebra II/Trigonometry Course and Regents Exam

This course is a continuation of topics from all previous math courses and provides the algebraic foundation for students intending to take a Calculus course. Topics include linear and quadratic equations, absolute value, inverse and composite functions, exponential and logarithmic functions, analytic geometry, trigonometry, probability, and sequences. Class enrollment is dependent upon teacher recommendation. Dual-credit is offered in conjunction with TC3 for two separate College Courses: Math 132 College Algebra & Trigonometry and Math 135 Precalculus. 6 total credits.

Course Title: AP Calculus I

Credit: 1

Prerequisite(s): Successful Pre-Calculus course completion

Calculus I is a college course that is a necessary prerequisite for many professional fields such as Science, Math, Technology and Engineering. Students enrolling in Calculus need to possess a strong math background to successfully access the content and concepts of the course. Students will strengthen quantitative skills and build a firm foundation in calculus. Topics included are Limits, Differentiation, Integration and Applications of Calculus. Class enrollment is dependent upon teacher recommendation. AP credit will be granted depending on exam scores and college transfer policies. Dual-credit is offered in conjunction with TC3. 4 credits

Course Title: Business Math

Credit: 1

Prerequisite(s): Integrated Algebra

The course is designed to develop a thorough understanding and mastery of the arithmetic processes of business with an emphasis on the application of principles to typical business problems. Topics included are: Solving for Unknowns, Percents, Discounts, Markups and Markdowns, Payroll, Simple and Compound Interest, Credit Cards, Home Ownership, Depreciation, Inventory, Stocks, Bonds and Mutual Funds. Business Math is a fourth year offering for seniors who have completed a sequence in applied math. Dual-credit is offered in conjunction with TC3. 3 credits

Course Title: College Prep Math

Credit: 1

Prerequisite(s): completion of three years of Math

This course will prepare students for college entrance exams as well as improve their problem solving abilities. Students will receive one high school Mathematics credit upon successful completion of the course. The course will include but not limited to the following units of content: Basic Operations and Applications; Number Concepts and Properties; Expressions, Equations, and Inequalities; Functions; Graphs and Measurement; Probability, Statistics, and Data Analysis. Course content may be adjusted to student's needs.

Music

Course Title: Senior High School Band

Credit: ½

The Instrumental program is intended to further develop students' individual and group skills in music instruction. Performances as large groups, small ensembles and solos are part of the performance opportunities offered. The concert band performs music that will challenge and expose students to a variety of styles and genres.

Course Title: Senior High Jazz Band

Credit: ½

Prerequisite(s): Instrumental type is a consideration – permission by the instructor prior to registration in this course.

The Jazz Ensemble introduces students to a progressive and modern level of music devoted to Latin, jazz, rock styles. Students will be encouraged to explore improvisation skills in this ensemble setting.

Course Title: Senior High Chorus

Credit: ½

The general purpose of the senior high chorus is to further a love of singing in a choral setting by performing a wide variety of quality vocal music covering all musical styles.

Course Title: Senior High Vocal Jazz Ensemble

Credit: ½

Prerequisite(s): Permission by the teacher required prior to registration.

Students will gain experience with a variety of styles ranging from pop standards to swing, etc. Members will work on improvisational skills.

Physical Education

Course Title: Physical Education for Grades 9 – 12

Prerequisite(s): None

Credit: ½

For all students in grades 9 – 12. Designed to improve physical fitness at all levels, it includes general education in a variety of sports, games and activities involving group and individual participation.

Science

A NOTE REGARDING SCIENCE COURSE REQUIREMENTS:

Beginning with the freshman class of 2001 – 2002, students will need to complete three credits in science. Two of these credits must include Living Environment and one from Earth Science, Chemistry, or Physics. Students must also pass one Regents examination or approved alternative for a Regents Diploma. Regents Exam scores of 65 or higher are required in Living Environment, plus two additional

exams from any combination of Earth Science, Chemistry or Physics are required for the Advanced Diploma with Distinction.

All core-based courses (Earth Science, Living Environment, Chemistry and Physics) require a minimum of 1200 minutes of laboratory time with satisfactory lab reports prior to entry into any part of a State Regents examination in science.

Course Title: Regents Earth Science Prerequisite(s): None Credit: 1

Regent's Earth Science is a full-year laboratory course. Generally, 9th grade students register for this course. Astronomy, geology, oceanography, and meteorology are studied.

Course Title: Regents Living Environment Prerequisite(s): None Credit: 1

This is a full year laboratory based course that is required for graduation. The topics that are covered include: **evolution, cell structure and function, maintaining homeostasis, human biology, reproduction and heredity, ecology, biotechnology and environmental issues.** Laboratory skills that include the application of the scientific methods and the application of laboratory techniques and procedures, including **dissection**, will be emphasized in this course. One honors section will be offered.

Course Title: Regents Chemistry Prerequisite(s): None Credit: 1

Regents Chemistry is an introduction to the serious study of chemistry. Technical language is utilized throughout the course, as are quantitative methods of interpretation of information. The topics covered include: the study of matter, atoms, chemical bonding, periodicity, stoichiometry, moles, kinetics, redox reactions, acid-base chemistry, organic chemistry, and nuclear chemistry. The course integrates a high deal of mathematical concepts, and successful completion of Algebra I, as well as Earth Science and Biology is often recommended. Laboratory skills that include the application of the scientific method and the application of laboratory techniques and procedures will be emphasized in this course.

Course Title: Regents Physics Credit: 1
Prerequisite(s): Geometry

Minimal skills needed for successful completion of this course include: good quantitative skills for solving problems, training in both algebra and trigonometry, ability to read and interpret mathematical problems given in words rather than symbols, and the will to strengthen skills in both disciplines. This course covers the NYS Regents curriculum. The student completing this course should be able to understand the terms and concepts of the topics covered, solve quantitative problems of moderate difficulty, manipulate and comprehend data using quantitative, estimation, graphical and error analysis and using the measuring tools and devices of a physics laboratory in prescribed as well as inventive modes for studying physical concepts. Classes will be conducted in several formats. Interactive lecture, discussion sessions, problem solving sessions, laboratory exercises, student assisted demonstrations, and individual help sessions.

Course Title: Environmental Conservation I (Fall Semester)

Credit: ½

Course Title: Environmental Conservation II (Spring Semester) **

Credit: ½

Prerequisite(s): Living Environment and Earth Science

Environmental science is a laboratory course will identify and analyze environmental problems both natural and human made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. This section of environmental science will integrate key concepts of physics, chemistry, biology, and Earth science with the social sciences (conservation, demography, economics, politics, and ethics). The first semester will emphasize the role of the social sciences and understanding the parts of our environment. The second semester will look closer at environmental issues facing resources and ways at attaining ecological sustainability. Independent projects will be in lieu of final exams at the end of each semester.

This course WILL be offered for the 2016-17 school year and is NOT anticipated being offered for the 2017-2018 school year.

Course Title: Zoology I (Fall Semester)

Credit: ½

Course Title: Zoology II (Spring Semester) **

Credit: ½

Prerequisite(s): Living Environment

This laboratory course will emphasize the concepts learned in biology as they pertain to animal life. This course will focus on anatomical and morphological differences between animals. **The collection and examination of animal specimens as well as the dissection of animals is a requirement of the course as it is essential to the comparative study of anatomy.** Concepts in animal behavior, ecology, embryology, and genetics will be integrated into the course. The first semester will emphasize behavior and morphology. The second semester will look closer at classification and the identification of various animal groups based on morphology with **heavy emphasis on dissection.** An independent project (first semester) with an examination (second semester) will be used for the final examination scores for the classes.

This course will NOT be offered in the 2016-17 school year and is anticipated to be the science elective for the 2017-2018 school year.

** Students enrolling for only the spring semester of the science electives need to get instructor permission for enrollment. And realize because they are entering midway through a curriculum, may need to do additional outside class work to get caught up.

Social Studies

Course Title: Beyond Our Borders

Credit: ½

Beyond Our Borders (BOB) is a 9th grade Social Studies ½ credit course. The goal of this course is to provide students with knowledge of the five themes of Geography, focusing on world geography, map skills and current events in order to be better prepared for Global I/II. Students will study and recreate political, physical, cultural, and historical maps of the continents. Students will research a variety of topics including culture, history, famous people and general information about different countries of the world. Students will research, discuss, present and analyze current events around the globe. Lessons are presented in variety of ways, for example lecture and PowerPoint, map skill lessons and using an atlas or almanac, discussion and lecture. Students will also learn how to present their research topics through PowerPoint.

Course Title: Global History I

Credit: 1

Grade 9 begins with the Paleolithic Era and the development of the first civilizations, continues with an examination of classical societies, and traces the expansion of trade networks and their global impact. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems.

Course Title: Global History II

Credit: 1

Grade 10 provides a snapshot of the world circa 1750. The course continues chronologically up to the present. Several concepts are woven throughout the course including industrialization, nationalism, imperialism, conflict, technology, and the interconnectedness of the world. The last three Key Ideas focus on global issues, applying a more thematic approach.

Global History II will be offered to all sophomores beginning in the 2017-18 school year.

Course Title: Global History I/II

Credit: 2

Prerequisite: Sophomore standing

These two courses are taken over a one-year period during sophomore year. Both history courses will chronologically cover all events in human history (and pre-history) up to the present. During the first semester, Global History I will focus on Prehistory through the Age of Absolutism. The second semester will cover the French Revolution to present day issues including all world conflicts. Because all students are now considered Regents students and must pass a Regents exam, the primary purpose of this course is to present material that will meet the state's new social studies standards and prepare students for the Regents exam. To pass the exam students must not only know history chronologically but also must have mastered social studies skills such as map reading, charts, and graphs, as well as be prepared to deal with the essential elements of research. This will enable them to not only to answer multiple-choice questions on the Regents exams, but the thematic essays, constricted response and data-based questions as well.

Course Title: American History

Credit: 1

Prerequisites: Global History I & II

This is a survey of U.S. History with concentration on the birth of our nation and the Civil War to the present. It is intended for high school juniors.

Course Title: TC3 American History

Credit: 1

Prerequisites: Global History I/II and teacher recommendation

TC3 American History incorporates all aspects of the Regents-based curriculum at a greater depth. Students are still responsible for taking the Regents exam in June as part of their graduation requirement. This course is designed to provide a learning experience equivalent to that of an introductory college course. Students will acquire analytic skills and factual knowledge necessary to deal critically with topics pertaining to U.S. History. Students in this course have the opportunity to acquire TC3 credit. TC3 Exams will be given at the conclusion of each semester.

Course Title: United States and World History through Mass Media

Credit: ½

This course will offer students the opportunity to examine different historical events dealing with both United States History and World History through use of Media. We will critically explore media to gain an understanding of historical, economic and societal events that have occurred on both the United States and World Stage. By examining historical events through mass media students will understand the impact of media on individuals, culture and social systems. We will also analyze the accuracy of how mass media interprets and presents historical events. Students will develop media literacy skills to become an informed media consumer. Students will examine history through film, radio, newspaper, and other forms of Mass Media.

Course Title: Participation in Government

Credit: ½

Prerequisite: Senior standing

Participation in Government is a half-year, 12th grade Social Studies course **required for graduation**. This course will serve as an insight to the government and create a group of informed citizens as they enter the real world. This course will discuss the basics of the Constitution, but then branch out to look at different hot topics in government. Students will be able to research a number of governmental topics, gain insight on how the government handles these issues/topics, and form an opinion based on their research.

Technology

Course Title: Drawing and Design for Production I/Wood Tech I

Credit: 1

Prerequisite(s): Willingness to work safely and cooperatively – freshmen and older

This course focuses on creative design development to solve problems in engineering. It is an essential course for all students interested in engineering, technical construction, mechanics and related fields. Students learn basic drawing skills, one and two-view drawings, orthographic projection, dimensioning, and freehand sketching in multiple views. Prototypes and mock ups of original designs are created by the student. Students will be introduced to hand and power tools to build designs.

Course Title: Energy, Power, and Transportation

Credit: 1

Designed for an introductory course in transportation, Exploring Transportation covers all of the technologies used to relocate people or goods. Information on the International Space Station, and coverage of electric and alternative fuel vehicles, is included. A major part of the course will be application of math and science concepts and how they apply to the transportation field. The course also covers different topics of transportation past, present, and future. This full year course will be limited to one section of 15 students.

Course Title: Residential Building and Maintenance

Credit: 1

Prerequisite(s): DDP

This course will explore the basic skills of carpentry, drywall, electricity, floor covering, masonry, plumbing and roofing. Each module will involve tasks geared toward an understanding of the procedures involved in each one. Building maintenance requires some knowledge of all the building trades: from repairing roof coverings to clearing a clogged plumbing drain; from replacing a broken light switch to patching a hole in drywall; from

installing a tile floor to repairing a set of wooden steps; from pouring a concrete sidewalk to stopping that annoying faucet drip. This course would be a good foundation course for someone looking at the building trades as a career after high school, and would also be beneficial for anyone who plans on owning their own home someday.

Course Title: Automotive Systems

Credit: 2

Prerequisite(s): Transportation and/or Small Engines. Sophomore, Junior, or Senior status

Automotive Systems is for those students who own cars or will be purchasing one in the near future. Students will gain a basic knowledge of vehicle operations and how to maintain vehicles to insure a safe and long ownership. It is also for those students who wish to explore automotive technology as a possible profession. It will cover in depth all of areas that make a vehicle function.

This course will be blocked daily as a two credit course.

Course Title: Basic Electricity

Credit: 1

Prerequisite(s): Algebra I

Student will learn electrical theory and fundamentals in both AC and DC electricity. They will gain knowledge in solid-state devices and soldering techniques that apply to solid-state devices.

This course may serve as a third local credit of math or science.

Course Title: Technical Drawing

Credit: ½

Prerequisite(s): None

For grades 9 - 12, this course is an introduction to measured drawings as the primary method to communicate ideas in the manufacturing and construction fields. It is an introduction to “graphical” problem-solving techniques.

Course Title: Architectural Drawing

Credit: ½

Prerequisite(s): Tech Drawing

Students will gain an awareness of basic architecture. Students will learn how to identify the basic components of a residential structure and will design and draw a residential structure.

Course Title: Electronic Hardware*

Credit: ½

Students will learn BASIC computer terminology and identify internal and external Hardware. Students will also learn how to safely remove and replace computer hardware components.

***This course will not be offered in the 2016-17 school year.**

Course Title: Computer Aided Drawing (CAD)*

Credit: ½

Prerequisite(s): Technical Drawing

An introduction to computer aided drawing using the program Cadkey. Students will use knowledge gained in Technical Drawing to create 2-D drawings. Students will also explore creating true 3-D drawings and models using the Cadkey program.

***This course will not be offered in the 2016-17 school year.**

Course Title: Surveying*

Credit: ½

Prerequisite(s): Technical Drawing

An introduction to land and construction surveys for grades 10, 11, and 12.

***This course will not be offered in the 2016-17 school year.**

Course Title: Digital Electronics*

Credit: 1

Prerequisite(s): Algebra I

Digital electronics is the foundation of digital computers and many automated control systems. In a modern home, digital circuitry controls the appliances alarm systems, and heating systems. Under control of digital circuitry and microprocessors, newer automobiles have added safety features, are more energy efficient and are easier to diagnose and correct when malfunctions arise.

This course is an introduction to digital electronic signals and combination logic circuits. Basic logic circuits will be designed and simplified using Boolean algebra and CPLD design software. Arithmetic circuits and data conversion integrated circuits are also covered. Practical design and trouble shooting is stressed. This course provides the fundamental knowledge for continued study in sequential digital circuitry and microprocessors.

This course may serve as a third local credit of math.

***This course will not be offered in the 2016-17 school year.**

Course Title: Small Engines*

Credit: ½

Prerequisite(s): None

Basic principles of internal combustion, trouble shooting and repair will be covered in this course. Small Engines is a half-credit course which may be used towards a five-credit technology sequence.

***This course will not be offered in the 2016-17 school year.**

Course Title: Wood Products and Processing*

Credit: 1

Prerequisite(s): DDP I, Willingness to work safely and cooperatively -- Sophomore or older

This course is an introduction to the wood industry. An overview of the products, processes, structure and organization including solid wood, sheet goods and engineered wood products used in industry will be given. An introduction to furniture/cabinet layout, construction and the safe use of wood processing machines and tools will be covered.

***This course will not be offered in the 2016-17 school year.**

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 Technology	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 & Health Occ	1 or 2 years
Precision Machining	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.

TST BOCES CAREER AND TECH PROGRAMS

Career and Tech Center (607) 257-1551

Director: Mr. Anthony DiLucci

Principal: Mr. Jeffrey Podolak

TST BOCES Career and Tech Programs instruct students in a variety of technical areas, preparing them for entering the work force 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 the 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. Courses may yield three or four credits, depending on individual students' situations.

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. Some courses offer concurrent enrollment opportunities through TC3, and all programs have at least one articulation agreement with colleges that have a related program, which include, but are not limited to: SUNY Delhi, SUNY Cobleskill, SUNY Alfred, SUNY Morrisville, TC3, Pennsylvania College of Technology, and Bryant and Stratton.

For more information on Career and Tech Programs, visit <http://tstboces.org/career-and-technical-education/cte-education/programs/>

ANIMAL SCIENCE

1st Year – PM Session

2nd Year – AM Session

Course Description: This two-year program prepares students for a wide range of careers related to animal care. Topics of study in the Animal Science Program include: practice care and management, health and disease, nutrition, reproduction, animal production, anatomy, physiology and animal behavior. Students will work with a variety of species housed on campus to enhance their skills in animal handling, managing, and caring for animals. First-year students will operate and manage a grooming parlor to gain experience in the caretaking of domestic animals. Second-year students will learn how to perform clinical procedures, along with gaining further experiences through internships at local veterinary clinics, animal rescue shelters, groomers, and more. Animal Science is for students who have a desire to work with animals, and in many cases, course work is geared to the interests and career direction of the individual student.

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

Can Lead To: Students may pursue post-secondary education in Veterinary Science, Animal Science and/or related fields. Career opportunities include: Veterinary Assistant, Animal Laboratory Assistant, Pet Groomer, Animal Shelter Worker, Pet Salesperson, Farm Owner/Herdsman.

AUTO BODY

1st Year – PM Session

2nd Year – AM Session

Course Description: This program focuses on collision repair skills for national certification. Practical experience is acquired by working on customers' cars. Students learn the use of hand, power and special auto body tools and equipment. Topic areas include: frame and auto body repair, auto refinishing and replacement of parts and sections of panels. Welding skills are emphasized. In addition, opportunities are available to create customized paint graphics, airbrushing, and restoration work on high performance and show quality vehicles.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$40.00.

Can Lead To: Students may pursue entry-level work as a body shop assistant, painter, sander, polisher or pursue self-employment as a shop owner. Two-year college or technical degree in Auto Body Technology can lead to: collision service worker, welder, insurance adjuster, parts manager or automobile painter.

AUTO TECHNOLOGY

1st Year – PM Session

2nd Year – AM Session

Course Description: This is a nationally certified program (NATEF). Students learn to repair foreign and domestic cars and light trucks using the latest techniques and computerized diagnostic equipment. Successful graduates are eligible to take the certification examinations offered by Automotive Service Excellence (ASE) and the New York State Department of Motor Vehicles Inspector License Examination. Throughout the two-year program, students gain daily practical experience working on vehicles donated by major auto manufacturers and/or customers' cars. Students who qualify may be eligible for clinical experience at local repair facilities.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$40.00.

Can Lead To: Students may be eligible for entry-level employment as a brake mechanic, general mechanics assistant, tune-up specialist or parts salesperson. Post-secondary opportunities include a two- or four-year degree in Auto Technology or specialized training at technical schools.

COMPUTER TECHNOLOGY

1st Year – PM Session

2nd Year – AM Session

Course Description: During the first year, students will experience an overview of the major components of Computer Technology, which include: Website Design, Computer Programming, Hardware Maintenance and Troubleshooting, Operating System Administration (Windows, Linux and DOS), 3D Animation and Design, Digital Video, and Basic Game Design. There is a strong emphasis on problem-solving skills and working independently. Students do not need any previous computer background for this class. The second year will encompass Carnegie Mellon University's LEGO robotics engineering program, as well as a global certification course, CompTIA's Fundamentals of Information Technology. Robotics engineering will concentrate on collaboration, team-building, project management and inquiry-based activities. Strata IT Certification's primary focus will be Green IT Standards, Wireless Security, Network Device Configuration, Basic Network Design and finally a Capstone Project that will bring together knowledge from both years of Computer Technology. Included in the second year will be Flash Animation, Blogging and Flickr Story in 6 Frames Project. Concurrent Enrollment credit through TC3 is available through this course.

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

Can Lead To: This program will prepare students for the CompTIA A+ Certification Exam as well as the CompTIA Strata Fundamentals of IT Exam. Students can pursue post-secondary education at a two-year or four-year college level in computer technology, electro-mechanical engineering, robotics or computer information systems. Possible employment opportunities include: computer

technical support, network support technician, help desk customer support technician, installation and maintenance technician of various electronic devices, electro-mechanical engineer, field engineer and communications technician.

COSMETOLOGY

1st Year – PM Session

2nd Year – AM Session

Course Description: The Cosmetology program provides training in hair, skin and nail analysis. Product knowledge and technical application and procedures are taught in the areas of styling, shaping, coloring, hair restructuring, and massage. This program offers students the unique opportunity to develop and practice their skills during a regular weekly clinic where the public is invited to make appointments for beauty services. This program prepares students for careers in Cosmetology. Satisfactory completion of the program and its 1,000 hours of instruction are required for a student to be eligible to take the NYS licensing exams, which will make students eligible to receive a temporary license.

Required Materials: First year students will need to purchase a kit that includes: mannequin, smock, and hair supplies – total cost of the kit is \$190.00. Second year students must buy a nail 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.

Can Lead To: Students who have completed the course requirements and who have passed the NYS Licensing test may become a hair stylist, color and nail technician, salon owner or manager. Many students pursue post-secondary education in the areas of business or entrepreneurial studies.

CRIMINAL JUSTICE

1st Year – PM Session

2nd Year – AM Session

Course Description: The first year of academic instruction focuses on criminal and civil law, vehicle and traffic law, arrest and court procedures, report writing and communication skills. Additional areas include: interviewing skills, patrol techniques, self-defense, security, fingerprinting, civil rights, applied math, and internet research. Class time is split between lecture and class

discussions, team-based lab work, and hands-on field activities, which include: physical activities, field trips, and interaction with special guests. The second year will be more career-centered, with a focus on: patrolling, criminal investigation, and police-community relations. Topics included in the second year are: forensics, accident and crime scene illustration, digital photography, life skills, and applied science, professional and career development.

Required Materials: Students will need to purchase a Criminal Justice uniform for this course – estimated cost is \$60.00.

Can Lead To: This program of study prepares students for college, military service, or direct employment in law enforcement or security fields. Students pursue secondary education at two- and four-year colleges in the areas of criminal justice, political science or related fields.

CULINARY ARTS

1st Year – PM Session

2nd Year – AM Session

Course Description: In the first year, students will learn the fundamentals of safety and sanitation, equipment operation, as well as how to prepare both short order and quantity cooking. Breads, pastries, entrees, and soups are included in menus selected and prepared by students. There is a great deal of emphasis on building social skills, working as team members, following directions, and exhibiting positive work attitudes. Second-year students are responsible for the complete operation of the *Horizon Café*, the on-campus restaurant. In addition, students will manage on-campus catering services, create baked goods for the Snack Shack, and design cakes for sales to students and staff. Capable students may also do internships in culinary arts-related businesses. Students in both years of the program will participate in college visitations and learn techniques from guest chefs. Concurrent Enrollment credit from TC3 is available through this course.

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

Can Lead To: This course prepares students for entry-level positions in the hospitality industry. Students may pursue a two- or four-year college degree program in hospitality/restaurant

management, culinary arts, pastry chef or related field.

DIGITAL MEDIA TECHNOLOGY

1st Year – PM Session

2nd Year – AM Session

Course Description: Students will experience an overview of commercial design, video production, and video game development. Initially, students will develop web-based and business-oriented media through a general exploration of digital editing tools. Then, moving quickly from simple digital video creation to complex movies, students will explore advanced pre- and post-production methods using Adobe Premiere Pro, Encore and After Effects. Building on this foundation and working with industry standard software and hardware, students will investigate both 2D and 3D animation techniques with a focus on website integration and video game design. Students will create complex animations and working video games using a variety of tools, including Adobe Flash and Autodesk 3ds Max. Throughout the course, there is a strong emphasis on problem-solving and working independently. Concurrent enrollment credit is available through TC3 for this course. Additionally, students have the opportunity to earn several industry certifications.

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

Can Lead To: Students can pursue post-secondary education at the two-year or four-year college level in a variety of disciplines including: graphic design, communications, game design and new media. Potential careers are: software engineer, flash designer, web developer, game developer, graphic designer, digital artist, game art and animation designer, animation system programmer, video editor, video systems technician, video production coordinator, and digital video analyst.

EARLY CHILDHOOD

1st Year – PM Session

2nd Year – AM Session

Course Description: Early Childhood education assists students who are interested in understanding the physical, social/emotional and intellectual development of children. Students learn about the characteristics and behavioral needs of three- and four-year-olds and learn how to care for them in a

nursery school setting three days a week. During nursery school, first-year students will design and implement lesson plans with the preschool students. Second-year students will gain hands-on experience through internships at local preschools, childcare centers and elementary schools. Good communication skills, both written and oral, are critical to success in this program, along with a genuine interest in working with children. Concurrent enrollment credit is available through TC3 for this course.

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

Can Lead To: Students may pursue a two- or four-year college for Early Childhood and/or Elementary Education. This course also provides entry-level skills to work as a nanny, preschool teacher aide, or day care provider.

HEAVY EQUIPMENT

1st Year - PM Session

2nd Year – AM Session

Course Description: This program is designed to meet the growing demand for technicians and operators in the transportation, construction and agricultural fields. The course provides training in the diagnosis and repair of heavy equipment, farm machinery and heavy duty trucks. Students learn the principles of the diesel engine, drive train, brakes, suspension and steering, electrical systems, hydraulics, welding, and preventive maintenance. Students receive classroom instruction that they will apply to hands-on lab work in the shop or outdoors. Specialty areas include maintenance and heavy equipment operation of tractors and diesel engines. Students who are interested in bio diesel and working with alternative fuel sources, landscaping and conservation should join this course. Select students have the opportunity to job-shadow and intern with professionals in the area.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$40.00.

Can Lead To: This course prepares students for entry-level employment positions, such as: heavy equipment technician, truck technician, or equipment operator. Many students pursue a two-

or four-year college to further their education in the heavy equipment and/or diesel technician field.

NURSE ASSISTING & HEALTH OCCUPATIONS

1st Year – PM Session

2nd Year – AM Session

Course Description: For students interested in the health care field as a supportive caregiver, these classes offer training for patient care in nursing homes, hospitals, and private homes. Students will participate in a supervised clinical experience to provide textbook learning and practical application. Students perform personal care procedures such as: bathing, dressing and feeding patients, and assisting them with mobility using crutches, canes, walkers and wheelchairs. In addition, they learn how to take vital signs and perform First Aid and CPR. All students must complete a physical exam and be updated on their immunizations to enroll in this program, and they must purchase a stethoscope, uniform, white shoes, and a watch. At the end of the two-year curriculum, students can take the NYS certification exam to be a licensed certified nursing assistant, plus attain a certification as a home health aide. Concurrent Enrollment credit from TC3 is available through this course.

Required Materials: Students will need to purchase scrubs, shoes, and a watch for this course – estimated cost is \$50.00.

Can Lead To: This program prepares students for entry into the workforce. Many students pursue nursing or other health care-related majors at the post-secondary level.

PRECISION MACHINING

1st Year – PM Session

2nd Year – AM Session

Course Description: Do you like hands-on projects that allow you to see your design ideas come to life? The Precision Machining Program is a “Design and Build” opportunity that introduces students to the field of computer controlled machining from beginning to end. Students utilize 2D and 3D CADD software to design virtual models of their solutions to technical challenges. The design is then translated into machine language using Computer Aided Machining (CAM) software. Students utilize state of the art 3D printers, CNC (computer controlled) milling machines, CNC

routers, and laser engraving equipment to produce the items they have designed. Students will develop career skills in Technical Communication including: 2 & 3D CADD and CAM Programming, Machine Shop Print Reading, CNC Machine Operation, Machine Shop Safety, Machine Set-up, Tooling & Operation, Quality Inspection and Control, and Manufacturing Processes and Automation. Concurrent Enrollment credit is available through TC3 for this course.

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

Can Lead To: There are a number of local companies who employ operators to utilize this technology. Precision Machining is at the core of the product design, manufacturing and robotics/automation industries. This program prepares students to pursue careers in a variety of technical fields including: CADD – CAM Programming, CNC Machining, Engineering Machine Tooling, Mechanical Maintenance, Machine Shop Technician, Manufacturing, Automation, Robotics, and Quality Control Inspection. The coursework is designed to align with the Associates Degree Program in Precision Machining and Tooling offered at numerous NYS Colleges and apprenticeship programs.

WELDING

1st Year – PM Session

2nd Year – AM Session

Course Description: Students will learn to manipulate metal using a variety of welding techniques including: welding and cutting, MIG, TIG, arc welding, and plasma cutting. Students will practice these methods on a variety of materials. Once the techniques have been mastered, students will apply the skills to complete jobs ordered from community members, create projects of their own, or perform metal sculpture.

Required Materials: Students will need to purchase work boots, work clothes, and safety glasses for this course – estimated cost is \$40.00.

Can Lead To: Students may either pursue a one-year certification program, a two or four year degree in welding technology, or seek immediate employment in the welding field. With experience and further training, a student may become a new age blacksmith, metal sculptor, underwater welder or pipe welder. Possible employers include: bridge

builders, machine tool shops, shipyards, military, aerospace industry, or fabricating/repair shops.

In addition to the Career and Tech Programs, the 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.

BUSINESS MATHEMATICS

Offered during 1st year or 2nd year of CTE

Program

Course Description: This math course is designed to develop a thorough understanding and mastery of the arithmetic processes of business, with an emphasis on the application of principles to typical business problems. Topics include: percents, solving for unknowns, discounts, markups and markdowns, payroll, simple and compound interest, credit cards, home ownership, and other financial transactions. Students who successfully meet the qualifications for Concurrent Enrollment from TC3 are eligible for college credit for this class.

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

MATH 100 – Concurrent Enrollment through TC3

Offered to AM second year CTE college bound students

Course Description: This course is designed to develop algebraic reasoning skills necessary to enter higher-level algebra-based courses such as MATH 200 (Statistics) and MATH 132 (College Algebra and Trigonometry), or MATH 113 (Math for Elementary School Teachers.) Topics include operations with polynomials, exponents, rational expressions, linear, quadratic, and rational equations, linear inequalities in one and two variables, systems of equations, and linear coordinate algebra. This course can be used to satisfy a math requirement at TC3, but it may not transfer to other institutions.

It fulfills the math requirement in some A.A.S. degree programs. **Note:** Students do not enroll in Math 100 to earn high school credit; it is available only for Concurrent Enrollment credit.

CTE SCIENCE

Offered during 1st year or 2nd year of CTE

Program

Course Description: Mashed potatoes offer a veritable buffet of scientific questions. Why do potatoes get softer when cooked? They hold heat so well – could you insulate your house with them? Why can't you mash other vegetables like broccoli? This humble food serves as an excellent example of the main idea of this course – that there are many different ways to examine one idea. *In this course, students will gain a strong background in the scientific method and laboratory techniques that will support a curious mind in making decisions and discoveries in any discipline.* This course is all about finding and exploring science in our lives – like the aforementioned science in mashed potatoes – focusing specifically on the science related to the thirteen different courses offered at the Career and Technical Education Center. To connect to Cosmetology, we'll investigate the tensile strength of human hair to see if various shampoos can back up their claim about an increase in strength, or find out why some engines can run smoothly on used vegetable oil, a concept that overlaps with our automotive and culinary programs. In this respect, the course is immensely integrative; students must draw on past learning and put these ideas (and many that they will learn in the course) together in novel ways to create new knowledge. The course will touch on algebra-based physics, chemistry, biology, and the earth sciences, but all from an angle that supports a connection to the Career and Technical Education Center courses. The course is heavily lab-based and experiential, and will require the use of math, good laboratory skills, a curious mind and a positive attitude.

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

PHYSICAL EDUCATION

Offered during 1st year or 2nd year of CTE

Program

Course Description: This course will focus on team and individual sports, with a focus on life-long fitness. Students are required to wear sneakers for class. **Note:** This course satisfies one (1/2) credit of Physical Education towards graduation.

TST BOCES NEW VISIONS PROGRAMS

Career and Tech Center (607) 257-1551

Director: Mr. Anthony DiLucci

Principal: Mr. Jeffrey Podolak

New Visions is a full year program that offers seniors a non-traditional challenging senior year. Accepted students attend this full-day program off-site at Cornell University and Cayuga Medical Center. Students are expected to be professional, courteous and to strictly adhere to the guidelines set by their teachers and mentors. Seniors receive high school credit for English 12 Honors, Government and Economics, as well as two electives, for a total of four credits towards graduation.

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. These programs are taught at the honors level, provide Concurrent Enrollment credit through TC3 for the core academic program, and are personally and academically challenging. Students who enroll in the New Visions Programs intend to pursue a competitive college or university upon graduation.

For more information on the New Visions Programs, visit <http://tstboces.org/career-and-technical-education/new-visions/>

NEW VISIONS: HEALTH AND MEDICAL CAREERS

This program meets daily at the Cayuga Medical Center in Ithaca and allows high school seniors to explore a wide range of health professions through direct involvement with medical staff and patients. Medical terminology, along with anatomy and physiology, are key health science modules integrated throughout the New Visions curriculum. Additionally, students learn the relevance of government, economics and English to this profession and return to class with real-life questions, dilemmas and a greater understanding of the role each student wants to fulfill as a future medical professional. The class work is demanding, but extremely rewarding. Students fulfill senior year requirements in English, government and economics.

NEW VISIONS: LIFE SCIENCES

This program is located at the Guterma Lab at Cornell University. Students will be able to

experience scientific research and explore first-hand some of the many career opportunities in the science of agriculture and environmental sciences, which include: animal, plant, environmental and food sciences, horticulture, veterinary medicine, forestry, land and water conservation, outdoor education, agricultural business and fishery-wildlife management, biological engineering and policy. The course is designed to attract students who are interested in environmental and agricultural issues, sustainability, food security, animals, plants, lakes, rivers and streams, who like science and inquiry, and who are not afraid of working hard, both independently and with others, including professionals. Students will be exposed to a wide variety of experiences varying from field trips to local businesses, guest speakers employed in these fields, job shadowing and career internships at Cornell University and within the community.

TST BOCES

WORLD OF WORK PROGRAMS

Career and Tech Center (607) 257-1551

Director: Mr. Anthony DiLucci

Principal: Mr. Jeffrey Podolak

The World of Work classes serve high school students with a variety of instructional needs. Classes promote positive self-esteem and socialization, as well as cognitive and motor skills development, through a progressive curriculum.

For more information on World of Work Programs, visit <http://tstboces.org/career-and-technical-education/cte-education/world-of-work/>

CAREER EXPLORATION PROGRAM **(Grades 11 & 12)**

AM or PM Session

The Career Exploration Program provides students with the opportunity to explore realistic career options available in our community. Students will have the opportunity to participate in four non-paid internship experiences in over 50 participating business sites throughout the school year. These work experiences are based on the student's interests and abilities. Transportation is provided to and from the work site, and students work directly with the job-site mentor to learn general and

technical job skills. Students will create a portfolio of their experiences, which will include a written work evaluation from each job-site mentor, to use towards employment.

FOOD SERVICE (Grades 9 – 12)

AM or PM Session

Food Service students will participate in the growing, training, harvesting and processing of a variety of fruits and vegetables that are grown in our garden. Students continue to develop their culinary skills through creating bakery goods, salads, and appetizers for various catering functions that are held on campus. Class projects and team work are an essential part of this program. Students who successfully complete this program may enroll in a Career and Tech level course or continue their education in the Career Exploration Program.

OUTDOOR RECREATION SERVICES

(Grades 9 – 12)

AM or PM Session

Students in the Outdoor Recreation Services Program focus on the repair and maintenance of small engine power tools, including: ATV's, lawn mowers, chainsaws, and related equipment. In addition, students will be exposed to MIG welding, basic framing, plumbing, wiring and tractor operation and maintenance. Students will also complete customer work in the automotive area, such as: detailing cars, oil changes, and general vehicle maintenance. Safety glasses, uniform and a notebook are required for this course. Students who successfully complete this course may enroll in a Career and Tech level course or continue their education in Career Exploration Program.

Advanced Placement Programs

In an effort to offer students opportunities to take Advanced Placement Courses (AP), South Seneca currently offers AP test opportunities in English, American History and Calculus. Course availability is based on prerequisites which are outlined in the course listings.

Frequently Asked Questions Regarding Advanced Placement Courses

How difficult are AP Courses?

Compared with regular high school courses, AP courses are usually more demanding. Depending upon the subject, you may read and write more, analyze material, synthesize ideas, solve problems and evaluate. Most AP classes are comparable to sophisticated college courses, so they aren't easy, but they are not impossibly difficult either. The intellectual skills and interest you can develop in AP courses—critical reading, analyzing data sets, synthesizing evidence to develop new insights, etc.—will equip you for lifelong learning. Your investment in any AP course is certain to provide many returns.

I'm not sure I'm interested in college credit or advanced placement. Why should I take an AP course and exam?

Taking an AP course provides you with extra learning opportunities. The courses give you the kind of background and preparation that will prove beneficial in our college courses, and an AP grade shows your college that you have learned college-level material and deserve credit and/or advanced placement for meeting that challenge.

I'm not sure I'm ready for an AP course and examination. What do I need to succeed?

You need to be willing and you need to be able. "Willing" means motivated to study and learn on the college level. If you are committed to participating actively in an AP class and doing the out-of-class assignments, you have met a major prerequisite for success. "Keeping up" is a basic practice for any college-level course. These courses move rapidly and cover a lot of ground. Successful students are those who keep up or, better, stay a little ahead of the required reading. You must also be able to do the work. Your record in earlier courses is the most obvious indicator of that ability.

Please refer to <http://www.collegeboard.org/ap/students/subjects.htm> for more information.

Middle School Instructional Program

The Core curriculum is delivered in a team environment. Students are organized in self-contained “houses” and the team teachers teach only those students assigned to that team. Classrooms are in close proximity to one another which provides a sense of belonging and reduces the feeling of anonymity among students. Students move out of their “house” for encore subject areas only. Instructionally, teachers plan collaboratively as they continue their effort to integrate the New York State learning standards across the curriculum.

Core Course Focus:

Math:

All Students are engaged in a standards focused math curriculum that includes mathematical analysis, scientific inquiry, and engineering design in an effort to develop questions, seek answers, and develop solutions to various problems.

Science:

All students are engaged in an applied science program which focuses on the State Learning Standards for science. The students will be able to use science labs as they strive to apply the knowledge of scientific concepts learned within the classroom setting.

English Language Arts:

All students are engaged in an English Language Arts program which focuses on the development and use of the following skills: reading, writing, listening, and speaking. Students also focus on these skills in all other subject areas as part of the curriculum integration design focus.

Social Studies:

All students are engaged in a social studies program which is focused on the State Learning Standards for social studies. Students are involved in developing an understanding of cultural influences that have shaped our society. Students will apply knowledge of various important documents in developing an understanding of their civic responsibilities.

Exploratory:

The exploratory curriculum is grounded in the Arts and Humanities. The focus is culturally rich and experiential in nature. The courses included in the Arts and Humanities curriculum include Art, Music, Technology Education, and Family and Consumer Science.

Physical Education:

All students are actively involved in a physical education program as mandated by New York State. The curriculum consists of various games, sportsmanship, and the importance of life-long wellness.

Health Education:

All students are required to complete a 20 week unit of Health Education by the end of 8th grade. Middle School Health Education is currently offered to all 6th and 8th grade students.

Positive Youth Development:

All Students are engaged in an integrated advisory program, Falcon Camp. The focus of the advisory is to establish student/teacher connections in a way that provides each child with an adult advocate in the educational setting. This program directly addresses the need to develop the whole child, which is a critical need for children at the middle level.

Foreign Language:

Spanish is the only foreign language offered in the middle school. Foreign language is a full year requirement in grades 7 and 8.

State Assessments for Middle School Students:

All students in grade 6, 7, and 8 are required to take state assessments in English Language Arts and Mathematics. Eighth grade students take state assessments in Science (performance and written). These assessments will determine the level of academic support your child is to receive as part of their High School program.

High School Transition:

The guidance counselors will make classroom visitations during March for current eighth grade students to plan their high school program. These visitations bring to focus new State Education assessments that all students are required to pass. Academic planning is extremely important as students' transition from eighth to ninth grade. Parents will be notified by mail of an information night to be scheduled sometime in the month of March. Attendance is strongly encouraged.

Graduation Requirements

Awarding of Diplomas and Participation in Graduation Ceremony

In order to participate in the graduation ceremony, the Building Principal must certify that the student has met the graduation requirements listed below:

The NYS Department of Education (SED) still mandates 22 units of credit to meet diploma requirements (see chart). There are currently no changes with respect to credit requirements.

SED has implemented two significant changes with respect to exam requirements for graduation.

1. The “4+1” pathway which still requires five exams to be completed. However, the American History or Global Studies exam (not both) may be substituted with an alternative exam (see #1 in notes). This would typically include a second math (Geometry) or science (Biology) exam.
2. SED is currently phasing in Common Core examinations as a substitute for the old Regents exams. The phase-in has begun with math exams and English (ELA). Grade levels affected by this transition are outlined in the accompanying chart.

The Local Diploma will still be awarded for students receiving special education services or students possessing a 504 accommodation plan where a low pass option is specified. In both cases a score of 55 is recognized as a passing score on all SED exams. Five exams are still mandated to meet graduation requirements. Other Safety Net options for special education students are outlined in the chart titled “Examination Requirements.”

All of the extensions listed below may be reached by dialing 869-9636

South Seneca School District Administrative Directory

Superintendent – Mr. Stephen Parker Zielinski - Ext 4147
Elementary Principal – Mr. Adam Rundell – Ext 3105
Elementary Dean of Students – Mr. Philip Marella – Ext. 3107
Middle/High School Principal – Mr. Tim Houseknecht – Ext. 4122
Middle/High School Asst. Principal- Mrs. Melissa Butler- Ext. 4120
Middle/High School - Administrative Dean of Students and
Director of Physical Education– Ms. Cathy Flanders - Ext. 3106
Athletic Director – Mrs. Heather Mott – Ext. 4128
CSE Chairperson – Ms. Susan Lynch- Ext. 4118

School Counselors

Mr. Kevin Webster – Ext. 4160
(Grades K-5)
Mrs. Jacqueline Bateman- Ext. 4105
(Grades 6 – 8)
Mr. Scott Anderson – Ext. 4101
(Grades 9 – 12)

School Psychologists

Ms. Tamis Kaplan - Ext. 4140
Ms. Michelle Cardoso - Ext. 4144

Student Assistance Counselors

Ms. Susan Wheeler – Ext. 2144 or 4157

School Social Worker

Ms. Brooke Habberfield- Ext. 1122

Board of Education

President: Mike DiPerna Vice-President: Kathreen Lavarnway
Paul Kelley, Jodie Vanselow, Mary Church, Brenda Eastman, Melissa Laverack

Helpful Phone Numbers

High School Nurse – Emilee Broadwell, RN – Ext. 4102
MS/HS Food Services Manager – Kathy Bishop – Ext. 4111
Transportation – Lance Heitmann – Ext. 4135
Librarian –Jody Gale – Ext. 4142