

Starpoint High School

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COURSE GUIDE

2024 – 2025



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A Message to Parents & Students

This Curriculum Handbook is a comprehensive summary of the subjects and courses offered at Starpoint High School. It is to be used in consultation with a school counselor and parent/guardian as students develop their programs for the 2024-2025 school year. The guide is not absolute; Starpoint High School's curriculum and the State Education Department requirements are continually in revision, evolving with new goals and objectives; it is up-to-date as of the date of printing.

From the School Counselors

The course guide has been prepared to assist you in developing a program of study to meet your individual interests, needs, and educational goals. Approach the course selection process seriously. Examine the course offerings and, with the assistance of teachers, counselors and parents, give careful consideration to all available options. Develop a program that explores and challenges your individual abilities and talents. Your counselor can help you plan your course of study and provide career and college information. Your counselor will work with you to make the next school year an enjoyable and rewarding experience.

High School Counselors

Grade 9: *Andrea Rodenhaus, 716.210.2315*

Grade 10: *Clement Smith Jr., 716.210.2312*

Grade 11: *Tara Wasilewski, 716.210.2366*

Grade 12: *Megan Koshinski, 716.210.2306*

Middle School Grade 8 Counselor

MaryBeth Passanese 716.210.2207

Course Planning Process

High School Counselors hold group scheduling orientations where students choose the course they would like for next year. From February through April, counselors will meet with students individually to review tentative schedules and determine a path to graduation that meets the students' needs and goals.

TITLE IX Notice—Equal Opportunity

The Starpoint Central School District does not discriminate on the basis of sex, race, color, national origin, or handicapping condition in the educational programs or activities which it operates, and is required by Title IX and Section 504 of the

Educational Amendments of 1972 not to discriminate in such a manner. This policy of non-discrimination includes the following areas: recruitment and appointment of employees; employment pay and benefits; counseling services for students; and access by students to educational programs, course offerings, and student activities. The district official responsible for the coordination of activities relating to compliance with Title IX and Section 504 is the Director of Administrative Services. This official will provide information, including complaint procedures, to any student or employee who feels that his or her rights under Title IX and Section 504 may have been violated by the district or its officials.

College Admission Recommendations

When planning your High School program, keep in mind that more and more jobs require higher education. Take **challenging classes** in high school that will prepare you for the future and help you succeed. High School can prepare you for entrance into the work force, college (two- or four-year), or the military. The following are recommendations for students in grades 9-12:

- **4 years of English**
- **4 years of Social Studies**
- **3 years of Mathematics**
- **3 years of Science**
- **3 or more years of the same Foreign Language**
- **1 or more courses in Music and Art**

College admission requirements vary according to program, major, etc. Prepared students will have the opportunity to choose among many more careers than students who take the minimum for graduation from high school. You must be able to:

- **speak and write clearly.**
- **comprehend what you read.**
- **understand how to use computers.**
- **solve problems using math or logic.**
- **understand scientific ideas and facts.**
- **appreciate the way history has shaped political and social issues.**
- **use good interpersonal skills.**

Advanced Courses

Advanced Placement, NUSTEP, and SUNY courses are offered at Starpoint for students who want to challenge themselves academically. These courses are rigorous and demanding. The primary emphasis is to enhance your chances for success in college, and the secondary emphasis is earning college credit. Starpoint currently offers the following college-level courses:

AP Art & Design
 AP Biology
 AP Chemistry
 AP Computer Science Principles
 AP English 11: Language & Composition
 AP English 12: Literature & Composition
 AP Music Theory
 AP Macroeconomics
 AP Physics
 AP U.S. Government and Politics
 AP US History
 AP World History
 CAP Business Ownership/Entrepreneurship
 CAP Pre-Calculus
 CAP Statistics
 ECC Financial Accounting
 Intro to AP World History
 French 4 Advanced
 French 5 Advanced
 NUSTEP Calculus
 NUSTEP Personal & Business Law
 Spanish 4 Honors
 Spanish 5 Advanced
 SUNY at Buffalo Gifted Math

*Offered only with sufficient enrollment as determined by the administration and Board of Education.

College-Level Examination Program

CLEP awards college credit at more than 2,900 U.S. colleges and universities for demonstrating achievement in a subject by means of a computer-based exam. By earning a satisfactory score, students can earn the same amount of credit as a student who successfully completed the same course at that school. Prospective students enrolling in accelerated degree programs are encouraged to take the CLEP test.

Independent Study

Independent Study provides an opportunity for advanced students to develop work in a particular subject area. It is motivated by the learner's aims

and is free from constant supervision. Additionally, an Independent Study is used when a course cannot fit into a student's schedule. An independent study must be teacher approved therefore it is facilitated between the teacher and counselor.

Electives

Many of our departments, such as art, business, and technology, are elective-driven departments. Even core departments, such as math and English, offer electives. We want to offer as many different courses as possible for our students; however, we are limited to the amount of courses that can be offered within each department. Therefore, we will determine which courses run based on student enrollment. Also, for these same reasons, seating may be limited for popular elective courses.

Promotion Requirements

From grade 8 to freshman

Students who fail one academic subject (English, mathematics, science, social studies) will be promoted to ninth grade. However, if you fail any of these subjects during the academic year, you are highly encouraged to complete the subject successfully in summer school, as these courses are the basis for high school courses. Students who fail two or more academic subjects will not be promoted to ninth grade and must repeat all eighth-grade courses (including courses passed) and will be assigned to an eighth-grade homeroom.

Grades 9-12

Read through the requirements for graduation (page 5). You must fulfill these requirements in order to receive a diploma. To become a

- **sophomore**, you must have completed at least five (5) units.
- **junior**, you must have completed at least ten (10) units.
- **senior**, you must have completed sixteen (16) units of credit.

If you do not have the required number of units, you will be retained in your present grade level.

Special Education students will be scheduled into their grade level in compliance with their Individualized Education Program (IEP). School counselors track your completed number of units on a permanent record transcript that is on our student information system, eSchool Data. They can show you this record and discuss any questions you or

your parents have concerning course selections, promotion, and your progress toward meeting graduation requirements.

Summer School

Students who fail required classes (including physical education) are strongly urged to attend summer school. Failure to do so may result in students **not** graduating on time with their class. Students who want to take a summer school course must have counselor approval. **All summer school courses will count in ranking.**

Alternative Method of Earning Credits

You may earn up to a maximum of 6 ½ units of credit without completing units of study for such units of credit. In order to earn such credit, you must satisfy each of the criteria listed below:

- Based on your past academic performance, the principal must determine that you will benefit academically by exercising this alternative.
- You must pass an oral examination or successfully complete a special project to demonstrate proficiency, as determined by the principal, in the subject matter area.
- You must achieve a score of at least 85%, or its equivalent, as determined by the Commissioner of Education, on a state-developed or state-approved examination.
- You must attend school, or have received substantially equivalent instruction elsewhere, in accordance with Section 320(2) of the Education Law.

Cancellation of Courses

Elective courses must have sufficient enrollment to be offered. You may have to reconsider choices if a course you have selected is canceled. You are advised to consider your selections carefully and be prepared to select alternate electives.

Course Changes

The cutoff date to make course selections or changes for the 2024-2025 school year will be **Friday, June 21, 2024**. Please note that enrollment for some elective classes may be closed by this date. **After Friday, June 21, 2024**, schedule change requests will not be honored unless:

- you are new to the district
- your summer school grades indicate a change must be made
- you would like to add a course

This policy will be followed to keep class sizes balanced. No teacher or lunch requests will be honored, per school policy.

Dropping a Course

To maintain the integrity of our academic program, students must attend and complete their scheduled courses. **Students are not permitted to drop a course until the end of the first marking period. Due to the timeline of the curriculum, there are two exceptions to that rule. Students enrolled in AP Literature and Composition or AP US History will be allowed to drop within the first two weeks of school.**

Weighted Final Average/Rank Policy

Factor 1.03

Chemistry Honors
 Concert Choir Honors
 Earth Science Honors
 English Language Arts I Honors
 English Language Arts II Honors
 Jazz Ensemble Honors
 Living Environment Honors
 Spanish 4 Honors
 Wind Ensemble Honors

Factor 1.06

AP Art & Design
 AP Biology
 AP Chemistry
 AP Computer Science Principles
 AP English 11: Language & Composition
 AP English 12: Literature & Composition
 AP Music Theory
 AP Macroeconomics
 AP Physics
 AP U.S. Government and Politics
 AP US History
 AP World History
 CAP Business Ownership/Entrepreneurship
 CAP Precalculus
 CAP Statistics
 ECC Financial Accounting
 Intro to AP World History
 French 4 Advanced
 French 5 Advanced
 NUSTEP Calculus
 NUSTEP Personal & Business Law
 Spanish 5 Advanced
 SUNY at Buffalo Gifted Math

Final Rank in Class

Courses will be weighted in February of senior year for final rank purposes. Only course work taught in the Starpoint District by a Starpoint faculty member or an accredited, pre-approved institution will be included in the senior ranking.

Enrichment summer school courses taught by a New York State High School may be included if:

1. prior approval has been granted by school counselor, and
2. the course meets a graduation requirement.

Requests for enrichment course work must be submitted to the student's school counselor. All requests will be reviewed by the counselor and decided on a case by case basis.

Academic Intervention Services

Academic Intervention Services (AIS) means additional instruction and/or student support services that supplement the instruction provided in the general curriculum. AIS assists students who are at risk of not achieving the State Learning Standards in English Language Arts, mathematics,

social studies and science, or who are at risk of not gaining the knowledge and skills needed to meet or exceed designated performance levels on State assessments. AIS is available to students with disabilities on the same basis as non-disabled students, provided that such services are consistent with the student's individualized education program. The following district description of Academic Intervention Services (AIS) includes criteria for eligibility, and two (2) components of AIS:

- **Instruction that supplements the general curriculum and/or**
- **Student support services needed to address barriers to improved academic performance.**

Services will be provided to students in English Language Arts, Mathematics, Social Studies and Science in grades 9-12. Assistance will be provided to students to help them pass the five Regents exams (or equivalents) in order to complete graduation requirements.

Minimum Graduation Requirements To graduate from Starpoint High School, you must earn 22 credits.

SUBJECT	ADVANCED REGENTS DIPLOMA	REGENTS DIPLOMA
English	4	4
Social Studies	4	4
Mathematics	3	3
Science (one unit must be Living Environment)	3	3
Health	.5	.5
The Arts (Studio in Digital Media Art, Studio Art, DDP or any Music Course)	1	1
Languages Other Than English (LOTE)	3*	1
Physical Education	2	2
*or 5 units CTE or 5 units Arts		

REQUIRED REGENTS EXAMS

COMPREHENSIVE ENGLISH	MATHEMATICS (<i>Integrated Algebra</i>)	SOCIAL STUDIES (<i>U.S. History and Global Studies</i>)	SCIENCE (<i>one must be passed</i>)
Regents score of 65 or above	Regents score of 65 or above	Regents score of 65 or above	Regents score of 65 or above

ADVANCED REGENTS DIPLOMA

To earn the Advanced Regents Diploma all Regents Diploma requirements must be met, and the following Regents exams must be passed with a score of 65 or above:

Algebra II exam
 Geometry exam
 Additional Science Regents exam
plus one of the following:

1. A language other than English (3 credits) plus World Language exam
2. CTE (5 credits)
3. Art/Music (5 credits)

NOTE:

- **Students with disabilities** – See your counselor for exemptions regarding Regents exam requirements.
- **Career and Technical Education** - CTE includes the following: Business, Technology, and BOCES vocational sequences.
- **Regents Policy** - You must pass a course with a final average of 65% in order to receive Regents credit. Receiving a passing grade on the Regents exam does not qualify you to receive course credit.

NCAA ELIGIBILITY CENTER

Attention Student Athletes – Students planning to participate in athletics in a Division I or Division II college must be certified by the NCAA Clearinghouse. There are a definitive number of core courses required for eligibility. Student athletes are responsible for being aware of these requirements and for following the application procedures required by the NCAA Eligibility Center. For more detailed information, students should speak with their counselor. If you plan on participating in intercollegiate athletics at an NCAA Division I or II institution, you must have your academic and amateur status certified by the NCAA Eligibility Center. **The following courses are not approved for NCAA core course credit:**

BUSINESS MATH
 CAP STATISTICS
 COLLEGE PREP 1
 COLLEGE PREP 2

INTRO TO AGRISCIENCE
 WORLD WAR II

www.ncaaeligibilitycenter.org

NCAA FRESHMEN ELIGIBILITY STANDARDS

Core Courses

NCAA Division I requires 16 core courses.

10 of the required 16 core courses must be completed before the start of your 7th semester (Junior year). Additionally, 7 of the 10 must come from English, Math and Science.

NCAA Division II requires 16 core courses as of August 1, 2013. See the chart for the breakdown of this 16 core-course requirement.

Test Scores

Division I has a sliding scale for test score and grade-point average which can be viewed on the NCAA Web site.

Division II has a minimum SAT score requirement of 920 or an ACT sum score of 70.

The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.

The ACT score used for NCAA purposes is a **sum** of the four sections on the ACT: English, mathematics, reading and science.

All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.

Grade-Point Average

Only core courses are used in the calculation of the grade-point average. Be sure to look at your high school's list of NCAA-approved core courses on the Eligibility Center's Web site to make certain that courses being taken have been approved as core courses. The Web site is

www.ncaaeligibilitycenter.org

Division I grade-point-average requirement is a minimum of 2.3.

Division II grade-point-average requirement is a minimum of 2.2.

16 Core Courses:

4 years of English
3 years of mathematics (Algebra I or higher)
2 years of natural/physical science
1 year of additional English, math or science
2 years of social science
4 years of additional courses (from any area above,
foreign language or comparative
religion/philosophy)

DIVISION II**16 Core Courses:**

3 years of English
2 years of mathematics (Algebra I or higher)
2 years of natural/physical science
3 years of additional English, math or science
2 years of social science
4 years of additional courses (from any area above,
foreign language or comparative
religion/philosophy)

For more information regarding the rules, please go to www.ncaa.org. Click on "Academics and Athletes" then "Eligibility and Recruiting." Or visit the Eligibility Center Web site at www.ncaaeligibilitycenter.org. Please call the NCAA Eligibility Center if you have questions. Toll-free number: (877) 262-1492



ART

COURSE	LENGTH	CREDIT
Studio Art	40 wks.	1
Drawing and Painting	40 wks.	1
Advanced Drawing and Painting	40 wks.	1
AP Art & Design*	40 wks.	1
Ceramics 1	20 wks.	½
Ceramics 2	40 wks.	1
Fashion & Textiles	40 wks.	1
Cultural Arts	20 wks.	½
Studio in Digital Media Art	40 wks.	1
Advanced Studio in Digital Media Arts	40 wks.	1
Digital Photography	20 wks.	½

* Submission of Art Portfolio is offered for college credit.

STUDIO ART (6280)

Level: Elective

Grade Recommendation: 9,10

Prerequisite: None

Credit: 1 Unit

Course Content: This intro level course introduces the students to a variety of art materials, techniques, art styles, artists, and movements. Students will learn how to use each material through sketchbook studies followed by an in-depth exploration of the material. The elements and principles of art provide the building blocks of design and these will be explored as students create observational drawings, gridded artworks, perspective and compositional studies, abstract images, and conceptual and thematic artworks. Sculpture and Digital art is introduced as well as printmaking, collage, and ceramics. Critical assessment of individual project work is performed throughout the year; each student compiles a beginning portfolio with an eye towards AP Studio Art. This course fulfills the New York State graduation requirement of one year (1 credit) of Art, Music, or Technology.



DRAWING AND PAINTING (6290)

Level: Elective

Grade Recommendation: 10,11,12

Prerequisite: Studio Art

Credit: 1 Unit

Course Content: This course is a year long advanced level course designed to reinforce student's drawing and painting skills. Drawing and Painting artists will be encouraged to refine their creative process and develop their own artistic exploration. Students will create several choice based projects and create art with meaning. Students will identify their ideas, explore all techniques and materials needed to express that idea and will then apply what they have learned through practice and experimentation into their art. Reflecting and critiquing art is also an integral part of a student's artistic growth. Students will be required to keep a sketchbook as evidence of their artistic process as well as a place to build their skills through regular challenges based on techniques, material, color theory, and inspiration from various artists and art movements. All two dimensional materials will be explored such as graphite pencils, pen and ink, charcoal, pastels, oil pastels, watercolor, acrylic paint, and more. Students will be challenged to think outside the box, to create their own marks, to manipulate the surface, and will be encouraged to experiment, revise, and challenge themselves.

ADVANCED DRAWING AND PAINTING (6297)

Level: Elective

Grade Recommendation: 11,12

Prerequisite: Studio Art, Drawing & Painting

Credit: 1 Unit

Course Content: This course is a year long advanced level course designed to improve artistic skills and facilitate the transition from high school art to college-level study. Students will receive intensive support and direction to further develop skills emphasizing drawing, color theory, design, spatial representation, expressive content, and delivery of ideas in critiques and artist statements. The course will require the student to identify their own ideas, explore ways to conceptualize that idea, practice techniques, experiment, revise, create, and reflect. Students will be required to keep a sketchbook and art portfolio that shows their process of idea development, research, and compositional planning.

AP ART AND DESIGN (6283)

**Once enrolled
in AP ART
AND DESIGN,
students will**

*The AP Studio Art Portfolio is
offered for college credit in May.*

choose their area of focus:

Drawing and Painting (includes digital art), 2D Design (includes Digital Art), or 3-D Design / Sculptural Arts.

Level: Advanced Placement

Grade Recommendation: 11, 12

Prerequisite: Highly recommended:

Drawing Portfolio: All Drawing and Painting courses;

2-D Design Concentration: All Computer Based Arts courses;

3-D Design Concentration: All Ceramic courses.

Credit: 1 Unit

Course Content: This course is equivalent to a college art course. Possible awarding of college credit is based on the presentation of the actual portfolio. There is no written exam. There is a fee for the Advanced Placement Test which is the submission of an art portfolio. There are three areas of concentration to choose from. See descriptions below.

2-D Design Portfolio is for students who want to focus on the principles of design in their art, rather than traditional drawing and painting skills.

Students submit portfolios for evaluation. The instructional goals of AP Art & Design are to encourage creative and systematic investigation of formal and conceptual issues; emphasize art-making as an ongoing process in which the student makes informed and critical decisions; help students develop technical skills and understand the functions of visual elements; encourage students to become independent thinkers who contribute inventively and critically to their culture through the making of art. Samples from both the College Board and past students' work will be presented to the students. The two major points that are pertinent in the portfolio are: (1) a sense of quality in a student's work and (2) the student's ability to create art based on a guiding question that they create. This course is more than just creating art. Students must show thought process, research, and experimentation with materials.

3-D Design Portfolio is for students wanting to work 3 dimensionally. This can include ceramics, fashion design, architectural models, jewelry, assemblage, and installations. 3-D Design involves purposeful decision making about using the elements of art principles in an integrative way. Students should demonstrate their understanding of the Elements of Art and Design Principles as they relate to depth and space. The two major points that are pertinent in the portfolio are: (1) a sense of quality in a student's work and (2) the student's ability to create art based on a guiding question that they want to explore. Their chosen theme must show thought process, research, and experimentation with materials.

Drawing Portfolio is intended for students to expand their drawing and painting skills to advance their visual communication skills by exploring a variety of design processes and techniques, and compositional and aesthetic concepts. The work focuses on the use of mark-making, line, surface, space, light and shade, and composition. Students can work with any materials, processes, and ideas. The two major points that are pertinent in the portfolio are: (1) a sense of quality in a student's work and (2) the student's concentration on a particular theme showing thought process, research, and experimentation with materials.

CERAMICS 1 (6351)

Level: Elective

Grade Recommendation: 10-12

Prerequisite: None

Credit: ½ Unit

Course Content: This course emphasizes hand building with clay. Through the techniques of wedging and recycling clay, students develop an understanding of the properties of clay. Methods of pottery-making, such as coiling, slab building, slip casting, and ceramic sculpture are explored as they create mugs, bowls, vases, and creative sculptural forms. Decorating and glazing methods are demonstrated. Clay composition, origin and formation are examined, as well as its commercial and creative uses.



CERAMICS 2 (6352)**Level:** Elective**Grade Recommendation:** 11, 12**Prerequisite:** Ceramics I**Credit:** 1 Unit

Course Content: Expand your ceramic skills through conceptual and creative sculptures such as expressive portraits, complex slab sculptures, decorative vases, pottery wheel creations, and plenty of choice based sculptures. Students also explore cultural influences on ceramics and will recognize the interdisciplinary nature of ceramics.

FASHION AND TEXTILES (6125)**Level:** Elective**Grade Recommendation:** 10-12**Prerequisite:** None**Credit:** 1 Unit

Course Content: Hand sewing, sewing with the sewing machine, crocheting, and other fiber arts are explored in this year-long course. Students will gain confidence on the machine through a variety of sewing projects such as bags, zippered pouches and pajamas. Sewing buttons, attaching zippers, and understanding how to create patterns for clothing are useful life skills. Students will also explore their own fashion sense through sketchbook assignments, mood boards, and creative challenges. Historical and contemporary fiber artists will be explored as well as career opportunities in the fashion industry.

Additional costs will be required as special projects are constructed.

CULTURAL ARTS (6191)**Level:** Elective**Grade Recommendation:** 10-12**Prerequisite:** None**Credit:** ½ Unit

Course Content: This course explores a variety of art forms based on cultural influences. Design concepts are explored through a variety of contemporary, historical, and multicultural craft techniques. Various mediums are used to allow students to better understand the cultures and develop creative solutions to their projects.

STUDIO IN DIGITAL MEDIA ARTS (6285)**Level:** Elective**Prerequisite:** None**Grade Recommendation:** 9,10**Credit:** 1 Unit

Course Content: This course is a first-year course recommended for students pursuing an interest in computer art, video, graphic design or photography. Emphasis will be placed on the Elements of Art and Principles of Design. Teachers will develop and provide supportive instructional strategies reinforcing the art elements in a variety of motivating experiences. Students will create computer-based artwork and video using the Adobe Creative Suite. This course fulfills the New York State graduation requirement of one year (1 credit) of Art, Music, or Technology.

ADVANCED STUDIO IN DIGITAL MEDIA ARTS (6286)**Level:** Elective**Grade Recommendation:** 10-12**Prerequisite:** Studio In Media Arts**Credit:** 1 Unit

Course Content: This course is a continuation of Studio in Digital Media Arts. Students will use their design skills and knowledge of the Elements and Principles of Design, along with the Adobe Creative Suite to create advanced projects that will include graphic design, photography, layout, web design, animation, and video.

DIGITAL PHOTOGRAPHY (6120)**Level:** Elective**Grade Recommendation:** 10-12**Prerequisite:** None**Credit:** ½ Unit

Course Content: This course includes the history of photography as it relates to current photography. Students will learn the elements and principles of design and how they relate to taking high-quality photographs. Students will learn to use digital and phone cameras effectively. Students will gain mastery of Macintosh computers and Adobe Photoshop, as well as advanced photo enhancement and color correction techniques.

INDEPENDENT STUDY FOR ALL ART COURSES – Seniors Only

Provides an opportunity for a student to choose a course not offered in the Art curriculum which they show strength and interest in. (See Guidelines for Independent Study on page 3)

ART CERTIFICATE UPON GRADUATION		
ART TRACK1 (2-D DESIGN)	ART TRACK 2 (DRAWING & PAINTING)	ART TRACK 3 (3-D DESIGN)
STUDIO IN MEDIA ART (1)	STUDIO ART (1)	STUDIO ART (1)
DIGITAL PHOTO 1 (.5)	DRAWING & PAINTING (1)	CERAMICS 1 (.5)
ADVANCED STUDIO IN DIGITAL MEDIA ARTS (1)	ADVANCED DRAWING & PAINTING (1)	CERAMICS 2 (1)
ELECTIVE	AP ART & DESIGN (1)	ELECTIVE
AP ART & DESIGN (1)		AP ART & DESIGN (1)

ELECTIVES FOR NON-ART CERTIFICATE STUDENTS

Advanced Studio in Digital Media Arts (1)
 Ceramics 1 (.5)
 Ceramics 2 (1)
 Cultural Arts (.5)
 Digital Photography (.5)
 Drawing & Painting (1)
 Advanced Drawing & Painting (1)
 Fashion Design (1)
 Studio Art (1)
 Studio in Media Arts (1)

BUSINESS

COURSE	LENGTH	CREDIT
Accounting I	40 wks.	1
SUNY ECC Financial Acct.*	40 wks.	1
Business & Mktg. Principles	20 wks.	½
Business Math+	40 wks.	1
CAP Business Ownership/ Entrepreneurship*	40 wks.	1
CAP Personal & Business Law	40 wks.	1
Sports Management	20 wks.	½

+ Course not sanctioned by NCAA

* SUNY college credit is available for a fee.

ACCOUNTING I (9090)

Level: Elective

Grade: 11, 12

Prerequisite: None

Credit: 1 Unit

Course Content: This course will teach student entrepreneurs how a business makes a profit and to understand financial statements. Students will learn how to record business transactions in accounting journals, make adjustments, and analyze stockholders' equity. An end-of-the-year computerized project will involve the student in a real world accounting experience.

FINANCIAL ACCOUNTING/SUNY ECC (9091)

Level: College

Grade: 11, 12

Prerequisite: Accounting I or Teacher Recommendation

Credit: 1 Unit/3.0 credit hours through SUNY ECC.

Course Content: This course is equivalent to the first year of accounting for business majors. Students will experience real world exposure and a close-up look at how accounting operates in the marketplace. Financial statement preparation, analysis and interpretation, and financial ratios are an integral part of the course. Students can earn college credit though SUNY ECC.

BUSINESS & MARKETING PRINCIPLES (9080)

Level: Elective

Grade Recommendation: 10, 11, 12

Prerequisite: None

Credit: ½ Unit

Course Content: In this course you will be introduced to the study of business for today's advanced world. You will learn about the various activities in which a business owner will engage in – marketing, management, finance and accounting. The course will help you understand these roles and how they work together. Students will use this course as a launch to further explore business courses available to them in 11th and 12th grade.

BUSINESS MATH (3040)

Level: Elective/Math Credit

Grade: 11, 12

Prerequisite: None

Credit: 1 Unit

Course Content: In this course you will use key math concepts like algebra, algorithms, fractions, and decimals to learn to make smart financial decisions. You will create budgets, learn the basics of investing and risk tolerance, maintain your checking account, and develop wise use of credit. The computer will be used for Internet based projects and research.

CAP BUSINESS OWNERSHIP AND ENTREPRENEURSHIP (9097)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: None

Credit: 1 Unit/3.0 Credit Hours through SUNY NCCC

Course Content: No one said owning a business is easy. Yet many people dream of being an entrepreneur today. From “side hustles” to full time gigs, it seems everyone wants to do this. Most of us watch Shark Tank and see this every week. Students will learn through their own choice of business what it is like to run one. Topics include business plan, marketing, promotion, finance and operations. Design of posters, brochures, print ads and gift certificates.

CAP PERSONAL AND BUSINESS LAW (9040)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: None

Credit: 1 Unit/3.0 Credit Hours through SUNY NCCC

Course Content: This course is designed to help students make important life decisions. Students will be able to: understand a contract, protect themselves when owning and/or operating a business (retail, or on-line), and become aware of warranties on all items and products either for themselves as a consumer or as a business owner. Students will be able to know their rights when seeking employment or during employment. A knowledge of oral and written agreements as well as contractual agreements will be covered. Learning what is involved for buying a house, dealing with banks and insurance companies, and being able to plan for early retirement and beyond will be discussed.

SPORTS MANAGEMENT (9092)

Level: Elective

Grade Recommendation: 10, 11, 12

Prerequisite: None

Credit: ½ Unit

Course Content: The sports world is looking for great management people and marketing personnel. This course is designed with a Sports Team Simulation "THE DREAM TEAM." Creating a Fantasy Sports Team and then managing a team, as well as designing the marketing materials, will be utilized. You will create a team name and logo. Students will be constructing a roster, a schedule, a salary schedule, and configure revenue. Students will also be producing newsletters, promotional license plates, banners, ticket designs, game day programs, and cereal boxes. A final Google Slides project ends the course year on a great note. I can't wait to form my team! A great course to get your feet wet if you plan on majoring in Sports Management or Marketing.



ENGLISH

COURSE	LENGTH	CREDIT
English Language Arts 9	40 wks.	1
English Language Arts 9 Honors	40 wks.	1
English Language Arts 10	40 wks.	1
English Language Arts 10 Honors	40 wks.	1
English Language Arts 11 *	40 wks.	1
AP English: Language and Composition (11) *, **	40 wks.	1
CAP English Language Arts 12	40 wks.	1
AP English: Literature and Composition (12) **	40 wks.	1
Journalism	20 wks.	½
Public Speaking	20 wks.	½
The Great Movies	20 wks.	½
SAT/ACT Test Prep	20 wks.	½

*Regents exam is given

**An AP exam is offered for college credit

ALL STUDENTS MUST TAKE AT LEAST ONE (1) CREDIT OF ENGLISH EACH YEAR.

ALL JUNIORS MUST BE ENROLLED IN English Language Arts 11 or AP English: Language and Composition.

ENGLISH LANGUAGE ARTS 9 (1040)

Level: Regents

Grade Recommendation: 9

Prerequisite: English 8

Credit: 1 Unit

Course Content: This course includes an intermediate novel, mythology selections, the “Iliad” and the “Odyssey,” short stories, poetry, drama, and non-fiction. The “Six Traits of Writing” method is used and preparation is begun for the four tasks required on the Regents Comprehensive English exam. Language study involves usage skills, pronoun use, sentence structure, and punctuation, with an emphasis on correction of problems evident in the students’ writing. Summer reading is required.

ENGLISH LANGUAGE ARTS 9 HONORS (1041)

Level: Regents

Grade Recommendation: 9

Prerequisite: English 8

Credit: 1 Unit

Course Content: Recommendation: 9 Prerequisite: English 8 Credit and 96% average after 2nd marking period. Prospective students will also have to take an “entrance exam” for 9H course to demonstrate readiness for the rigors of High School Honors level study. Students from within the district and those who enter from other public/private school districts will be required to complete this exam. The exam will be based upon a NYS Regents Style Rubric, utilizing a reading passage and a “quick write” directive relative to the reading passage. Approval from 8th grade teachers as pertains to the Middle School “5 points of Character” with regard to behavior and maturity is also required.

Unit Course Content: This course includes an intermediate novel, mythology selections, the “Iliad” and the “Odyssey,” short stories, poetry, drama, and non-fiction. The “Six Traits of Writing” method is used and preparation is begun for the four tasks required on the Regents Comprehensive English exam. Language study involves usage skills, pronoun use, sentence structure, and punctuation, with an emphasis on correction of problems evident in the students’ writing. Summer reading is required.

ENGLISH LANGUAGE ARTS 10 (1060)

Level: Regents

Grade Recommendation: 10

Prerequisite: ELA I

Credit: 1 Unit

Course Content: This course places more emphasis on independent reading and critical analysis, improving writing skills, close reading strategies and the study of literature. Course work includes short stories, non-fiction, Greek and Shakespearean drama, poetry, and three novels. Vocabulary and spelling are tested regularly, and grammar and usage are evaluated in context. Formal and informal speaking opportunities are provided. There is a content related final that is patterned after a Common Core style exam. Summer reading is required.

ENGLISH LANGUAGE ARTS 10 HONORS (1061)**Level:** Regents Honors**Grade Recommendation:** 10**Prerequisite:** 90 Average in ELA I**Credit:** 1 Unit

Course Content: This course includes the study of literary elements in short stories, drama, novels, and poetry in greater depth and breadth than English 10. Students further develop the use of standard written English and techniques of style. This course requires students to present and share ideas orally, both formally and informally. Summer reading is required. There is a content related final that is patterned after a Common Core style exam. Summer reading is required.

ENGLISH LANGUAGE ARTS 11 (1082)**Level:** Regents**Grade Recommendation:** 11**Prerequisite:** ELA II**Credit:** 1 Unit

Course Content: This course emphasizes the improvement of writing skills and includes a survey of American Literature. Students will work on the development of reading, writing, listening, and speaking skills through the reinforcement of literary devices, styles, and techniques. In addition to writing and vocabulary assignments, students are also expected to work with literary criticism, write critical essays, and complete Regents examination practice. In an effort to promote lifelong readers and writers, students will participate in both fREADom and Write Choice. Works in this course may include: *The Crucible*, *Macbeth*, *Death of a Salesman*, *The Great Gatsby*, *One Flew Over the Cuckoo's Nest*, and *The Catcher in the Rye*. Summer reading is required.

The Comprehensive English Regents exam is required and is given in June.

AP ENGLISH: LANGUAGE & COMPOSITION (1085)**Level:** Advanced Placement**Grade Recommendation:** 11**Prerequisite:** Open Enrollment**Credit:** 1 Unit

Course Content: This course is equivalent to a college English course. It is designed to help students become skilled readers of prose written in

The Comprehensive English Regents exam is required and is given in June to juniors. The AP exam is offered for college credit in May.

a variety of time periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for various purposes. Summer reading is required. **There is a fee for the Advanced Placement Test.**

CAP ENGLISH LANGUAGE ARTS 12 (1121)**Level:** Regents**Grade Recommendation:** 12**Prerequisite:** ELA III, Writing I (ENG 101) requires an 80% overall high school average.**Credit:** 1 Unit

Course Content: The goal of the course is to enhance students' writing and research skills in order to prepare them for college. Literature will also be a part of the course. This is a SUNY course offered for seniors to earn three credits for Writing 101 through NCCC. Students will complete a 25-page portfolio, throughout the course, in order to receive college credit. There is a cost to take this course for college credit, but at about 1/3 of the cost of a course on campus. This is a great opportunity to save money and leave Starpoint with college credits!

AP ENGLISH: LITERATURE & COMPOSITION (1120)**Level:** Advanced Placement**Grade Recommendation:** 12**Prerequisite:** Open Enrollment**Credit:** 1 Unit

Course Content: This course is equivalent to a college English course. It examines the major forms of world literature: novels, poetry, drama, and short story. Students are required to master the skills needed to analyze difficult literature. Summer reading is required. **There is a fee for the Advanced Placement Test.**

The AP exam is offered for college credit in May.

JOURNALISM (1135)**Level:** Elective**Grade Recommendation:** 11, 12**Prerequisite:** Passing of English II**Credit:** ½ Unit

Course Content: Journalism introduces students to the fascinating world of print, online, and broadcast media. We will also study the history of journalism and speak to journalists that are currently in the field. The course explores reporting, writing, editing, and photography. Students will narrow the scope with feature stories, reviews, editorials and opinion pieces, and try sports and/or entertainment

stories. Ultimately, students will be asked to create their own stories which will be featured and published in a course tabloid and shared within the Starpoint community. Students may be asked to work closely with the yearbook team, and some out-of-class time will be required.

PUBLIC SPEAKING (1155)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: ELA II

Credit: ½ Unit

Course Content: This course covers the skills required to prepare and present a public address. Focus is on varying methods of addressing an audience in different situations; students write several speeches and all speeches are a course requirement. Students are also required to write critiques of their classmates' work.

THE GREAT MOVIES (1160)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: Interest in movies and films

Credit: ½ Unit

Course Content: This course deals with the history and evolution of films as not only a form of entertainment, but in some cases, a response to issues in society. Students will learn to understand and appreciate various cinema techniques, view outstanding movies, and deepen their enjoyment of today's movies by understanding their origins. Students will view movies of various genres and styles, such as *Psycho*, *Citizen Kane*, *Casablanca*, *Raiders of the Lost Ark*, *The Prestige*, *Best in Show*, and many more. Finally, a course where you can watch movies and obtain credit toward graduation!

SAT/ACT TEST PREP (9980)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: None

Credit: ½ Unit

Course Content: This course is developed to prepare Juniors for the SAT and ACT college entrance exams. Through review and practice, students will be familiarized with the directions for each section, the style of the questions, and the best approaches for determining answers. In addition to supplying overview of the structure of each test, the course will provide students with content review, and test taking tips and strategies for both of the tests. Taking the PSAT in the fall of Junior year is strongly recommended.



MATH

COURSE	LENGTH	CREDIT
Algebra I (A)	40 wks.	1
Algebra I (B) *	40 wks.	1
Algebra I *	40 wks.	1
Algebra II + *	40 wks.	1
Algebra II *	40 wks.	1
AP Computer Sci. Principles	40 wks.	1
Business Math ***	40 wks.	1
CAP Precalculus	40 wks.	1
CAP Statistics	40 wks.	1
College Prep 1 ***	20 wks.	½
College Prep 2 ***	20 wks.	½
Geometry *	40 wks.	1
NUSTEP Calculus **	40 wks.	1
SAT/ACT Test Prep	20 wks.	½
SUNY Buffalo Gifted Math	40 wks.	1

* Regents exam is given

** NUSTEP exam is offered for college credit

*** Course not sanctioned by NCAA

GEOMETRY (3091)

Level: Regents

Prerequisite: Math 8

Grade Recommendation: 9

Credit: 1 Unit

Course Content:

This course will follow the Learning Standards and Curriculum as established by New York State. Students will explore topics of congruence, similarity and transformations as related to geometric figures. Students will utilize a compass to explore geometric concepts throughout the course.

The Geometry Regents exam is required in June.

ALGEBRA I (3070)

Level: Regents

Prerequisite: Geometry

Grade Recommendation: 10

Credit: 1 Unit

Course Content:

This course will follow the Learning Standards and Curriculum as established by New York State. Students will explore functions such as linear, exponential and quadratic by analyzing similarities between quantities. Each

The Algebra I Regents exam is required in June.

component will incorporate the use of the graphing TI-84 Plus graphing calculator.

ALGEBRA I (A) (3061)

Level: Regents

Prerequisite: Math 8, Teacher Recommendation and a 1 or 2 on the NYS Intermediate Math Exam

Grade Recommendation: 9

Credit: 1 Unit

Course Content: This course is the first year of a two-year program in Algebra I Common Core. Mastery of students' algebraic skills, to the depth necessary to succeed at word problems and real world applications, is developed. The first half of Algebra I Common Core content is covered which includes introduction to functions, statistics, and modeling with equations. Problem solving skills are developed to prepare for the Common Core Algebra exam. The curriculum reflects the Common Core learning standards.

ALGEBRA I (B) (3062)

Level: Regents

Prerequisite: Algebra I (A)

Grade Recommendation: 10

Credit: 1 Unit

Course Content:

This course is the second year of a two-year program designed to prepare students for the Algebra I Regents exam. The primary focus is on continuing to develop the students' algebraic skills. Topics covered include linear, exponential, polynomial, and quadratic equations and functions, along with the modeling of those equations and functions. The curriculum reflects the common core learning standards

The Algebra I Regents exam is required in June.

ALGEBRA II (3120)

Level: Regents

Prerequisite: Geometry and Geometry Regents Exam, Algebra I and Algebra I Regents Exam

Grade Recommendation: 10-12

Credit: 1 Unit

Course Content:

This course will follow the Learning Standards and Curriculum as established by New York State. Students will explore topics that prepare them for the world of higher math with a focus on functions. We will also explore data and how it relates to the world. Each component will incorporate the use of the graphing TI-84 Plus graphing calculator.

The Algebra II Regents exam is required in June.

MATH LAB (3121)**Level:** Regents**Prerequisite:** Currently enrolled in a Regents math course**Grade Recommendation:** 9-12**Credit:** none

Course Content: This course is a supplement to a Regents math course and is designed for students who struggle with that content. Enrollment is optional, but strongly recommended for students who earned an 85% or lower in a prior math course. The lab course meets every other day and is intended to provide additional support for the course material taught.

ALGEBRA II+ (3130)**Level:** Regents**Prerequisite:** Geometry and Geometry Regents Exam, Algebra I and Algebra I Regents Exam**Grade Recommendation:** 11, 12**Credit:** 1 Unit**Course Content:** **The Algebra II Regents exam is required in June.**

This course will follow the Common

Core Learning Standards and adapt the New York State curriculum. We will explore the *Story of Functions* as it relates to Algebra II. The TI-84 graphing calculators are used daily in class. Algebra II Modules include Polynomial, Rational and Radical Relationships, Trigonometric Functions, Functions, Inferences and Conclusions from Data. **Extended time is built into this course to allow students more time to master the content.**

Students will be placed in this course based on teacher recommendation

CAP STATISTICS (3142)**Level:** College Level**Prerequisite:** Algebra II, and a 70% on the Algebra 2 Regents or Geometry Exams.**Grade:** 11, 12**Credit:** 1 Unit

Course Content: The course explores data using relevant real-world content. Topics includes one and two variable data, data collection, probability, sampling distributions and inference for distributions. Students explore practical applications and analyze data using technology.

*Three college credits can be obtained through NCCC.

The NCCC Exam is given in June.

AP COMP. SCI. PRINCIPLES (3141)**Level:** College Level**Grade Recommendation:** 11, 12**Prerequisite:** Algebra 2**Credit:** 1 unit

AP Exam given in May.

Course Content: AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. **This course is not approved by the NCAA.**

CAP PRECALCULUS (3140)**Level:** Regents**Prerequisite:** Algebra II, and a 70% on the Algebra 2 Regents Exam.**Grade:** 11, 12**Credit:** 1 Unit

The NCCC Exam is given in June.

Course Content: This course strengthens students' algebraic skills and prepares students for Calculus. *Four college credits can be obtained through NCCC. Major topics include polynomial, rational, exponential, logarithmic, and trigonometric functions; advanced algebra, graphs and models; analytic trigonometry, systems of equations, as well as an introduction to limits. Additional topics could include matrices, conic sections, and sequences.

NUSTEP CALCULUS (3150)**Level:** College Level**Prerequisite:** Precalculus**Grade Recommendation:** 12**Credit:** 1 Unit**Course Content:**

The Niagara University exam is given in June.

This course is equivalent to a college calculus course. Four college credits can be obtained through Niagara University. The course covers the following topics: limits and functions, derivatives and its applications, integration and its application, transcendental functions, methods of integrations, series, and sequences. The course uses a multi-representational approach with concepts, results, and problems being expressed graphically,

numerically, analytically, and verbally. **There is a fee for the NUSTEP Program.**

COLLEGE PREP 1 (3043)

Level: Elective

Prerequisite: At least a 65 in the Algebra I course and 65 on Algebra I Regents Exam.

Grade Recommendation: 11, 12

Credit: ½ Unit

Course Content: Course Content: This course strengthens students' skills in performing basic arithmetic computations and in algebra. These skills are often found on mathematics placement tests for higher education. The course will include practical applications and calculator use will be integrated throughout. **This course is not approved by the NCAA.**

COLLEGE PREP 2 (3044)

Level: Elective

Prerequisite: At least a 65 in the Algebra I course and 65 on the Algebra I Regents Exam.

Grade Recommendation: 11, 12

Credit: ½ Unit

Course Content: Course Content: This course is a continuation of College Prep 1. Applications and calculator use will continue as more content is introduced. Topics in Algebra and Geometry will be examined. **This course is not approved by the NCAA.**

BUSINESS MATH (3040)

Level: Elective/Math Credit

Grade: 11, 12

Prerequisite: None

Credit: 1 Unit

Course Content: In this course you will use key math concepts like algebra, algorithms, fractions, and decimals to learn to make smart financial decisions. You will create budgets, learn the basics of investing and risk tolerance, maintain your checking account, and develop wise use of credit. The computer will be used for Internet based projects and research. **This course is not approved by the NCAA.**

SAT/ACT TEST PREP (9980)

Level: Elective

Prerequisite: None

Grade Recommendation: 11, 12

Credit: ½ Unit

Course Content: This course is developed to prepare Juniors for the SAT and ACT college entrance exams. Through review and practice, students will be familiarized with the directions for each section, the style of the questions, and the best approaches for determining answers. In addition to supplying an overview of the structure of each test, the course will provide students with content review, and test taking tips and strategies for both of the tests. Taking the PSAT in the fall of Junior year is strongly recommended.

SUNY BUFFALO GIFTED MATH (3160)

The Gifted Math Program replaces mathematics courses at Starpoint and UB staff provides grades for course work.



MUSIC

COURSE	LENGTH	CREDIT
Concert Band	40 wks.	1
Concert Choir Honors	40 wks.	1
Music Technology 1*	20 wks.	½
Music Technology 2*	20 wks.	½
AP Music Theory	40 wks.	1
Treble Choir	40 wks.	1
Jazz Ensemble Honors	40 wks.	1
Senior High Chorus	40 wks.	1
Wind Ensemble Honors	40 wks.	1

*Does not run this year. Will be offered 2025-2026

JAZZ ENSEMBLE HONORS (6640)

Level: Elective

Grade Recommendation: 10-12

Prerequisite: Audition and/or Junior High Jazz Ensemble experience

Credit: 1 Unit Course Weighted 1.03

Course Content: This performance-oriented ensemble is designed for the advanced musician who is interested in the study and performance of the many forms of jazz music. This ensemble performs for both in school and out of school concerts and events. Along with daily rehearsals, jazz theory and history are also taught. Participation in evening concerts, school events, off-campus performances, and before school rehearsals is required in order to receive credits.

As it is an Honors Ensemble, every student will be required to learn a level 4-5 jazz solo for the midterm and level 5-6 jazz solo for yearend evaluation, along with improvising over Concert Bb, F and C Blues. It is recommended that the students attend All County and NYSSMA evaluations. The jazz ensemble will compete in the NYSSMA Majors Evaluation every Spring.

WIND ENSEMBLE HONORS (6620)

Level: Elective

Grade Recommendation: 10-12

Prerequisite: Concert Band Director's Recommendation or Audition

Credit: 1 Unit

Course Content: The Wind Ensemble is Starpoint High School's "Varsity" band. The goal of this class is to explore and perform a wide variety of concert band music written by great composers. The

repertoire includes inspirational masterpieces, enchanting programmatic works, traditional marches, cheerful holiday selections, and fun pop medleys. Rehearsals are focused on fostering each student's ability to express themselves musically. This involves deepening each student's connection to the expressive qualities of music and developing the technique necessary to perform it successfully. In the end we hope to nurture a lifelong appreciation of aesthetic beauty through the experience of great music. We also have a lot of fun! The Wind Ensemble is full of great musicians and this class will be the highlight of your day! This ensemble welcomes musicians in grades 10-12 who have at least 3 years of experience playing a traditional wind band instrument (woodwinds, brass, percussion, and string bass) and who want to further their study of instrumental music. As it is an Honors Ensemble, every student will be required to learn a NYSSMA solo for their midterm grade and another solo for their year-end evaluation. Students are encouraged to attend All County and NYSSMA evaluations. The most important prerequisite is to have a mature positive attitude and to do your best. Wind Ensemble repertoire requires a very specific instrumentation in order to perform it as published. We need to balance the number of instruments in each section to cover all the parts and to sound good! If you are interested in joining the Wind Ensemble, please see Mr. Volpe to see which seats are available

CONCERT BAND (6610)

Level: Elective

Grade Recommendation: 9-12

Prerequisite: Basic music skills and interest

Credit: 1 Unit

Course Content: The Concert Band is open to all students in grades *9-12 who currently play or have previously played a musical instrument. Concert Band strives towards improving students' musical knowledge, both rhythmically and tonally, through daily rehearsals and performances. Participation in evening concerts, weekly lessons, and after-school rehearsals is required in order for credit to be granted.

* All incoming 9th Grade Band students will be enrolled in Concert Band.

MUSIC TECHNOLOGY 1 (6650)*PRODUCTION THROUGH PERFORMANCE****Level:** Elective**Grade Recommendation:** 10, 11, 12**Prerequisite:** None**Credit:** ½ Unit

Course Content: Production Through Performance is a sequential curriculum designed to teach students of all skill levels to produce music. We use your favorite musical genres and artists as inspiration to recreate the music you love the most. In this class, students will learn how to write, play, practice and record drum beats, basslines, chord parts and melodies using MIDI keyboards and a Digital Audio Workstation (DAW). We are currently using Soundtrap, Mixcraft, and FLStudio as our DAW. The goal of this course is to help students explore and develop their musical imagination through the use of this technology and to teach students about music *by creating it*. It is not necessary for students to know much about traditional music theory or notation to succeed in this course. Join today and get ready to cook up some fire grooves!

MUSIC TECHNOLOGY 2 (6635)*MODERN MUSIC THEORY****Level:** Elective**Grade Recommendation:** 10, 11, 12**Prerequisite:** None**Credit:** ½ Unit

Course Content: Take your songwriting skills to the next level! This class is an extension of Music Technology 1 and will give us more time to write and produce music you love. We will use pop music as the engine to learn the principles of music theory, which include scales, rhythms, bass lines, harmony, chord progressions, and melodies, texture, and form. The Modern Music Theory Method combines keyboarding, theory, composition, ear training, note reading, ensemble skills, and digital audio recording in a study sequence that fosters success and creativity for the traditional and non-traditional music student. This course will also serve as a solid introduction for students who wish to take traditional AP Music Theory.

AP MUSIC THEORY (6636)**Level:** Elective**Grade:** Recommendation: 11, 12**Prerequisite:** You must be willing to sing!**Credit:** 1 Unit

Course Content: Advanced Placement Music Theory is designed for advanced music students wishing to pursue an intense study of music analysis, part writing and composition. This is a college level course for future music majors. Willing and academically prepared students who do not plan to major in music will have the opportunity to deepen their understanding and appreciation of the language of music.

Course Objectives: The ultimate goal of the Advanced Placement Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a music score. The achievement of this goal may be best promoted by integrated approaches to the student's development of:

- Aural skills
- Sight-singing skills (students will be expected to sing every day)
- Written skills
- Compositional skills
- Analytical skills

The AP Music Theory Exam: This course is designed to prepare you for the AP Music Theory Exam in May. Taking the AP exam is not required, although it is recommended.

SENIOR HIGH CHORUS (6570)**Level:** Elective**Grade Recommendation:** 9-12**Prerequisite:** None**Credit:** 1 Unit

Course Content: This course is a vocal ensemble for the study of vocal music. Students gain experience and learn vocal techniques in all styles of singing. The class meets five times per week, and lessons are one time per week. Participation in evening concerts and weekly lessons are required. Students will exit this course with enhanced singing abilities in a variety of genres.

TREBLE CHOIR (6571)*Level: Elective***Grade Recommendation: 9***Prerequisite: None***Credit: 1 Unit**

Course Content: This course is a vocal ensemble for the study of vocal music for high (treble) voices. Students gain experience and learn vocal techniques in all styles of singing. The class meets five times per week, and lessons are one time per week. Participation in evening concerts and weekly lessons are required. Students will exit this course with enhanced singing abilities in a variety of genres.

CONCERT CHOIR HONORS (6572)*Level: Elective***Grade Recommendation: 10-12***Prerequisite: Senior High Chorus or Treble Choir and audition***Credit: 1 Unit**

Course Content: This course is an auditioned choral ensemble that provides an opportunity to develop advanced vocal techniques, ensemble, and performance skills. Students further develop singing technique, music reading skills, and vocal independence. Concert Choir performs advanced selections from the choral repertoire at several performances throughout the year. Participation in evening concerts and lessons are required in order for credit to be earned.

Music Department							
3 Silos							
	VOCALS		INSTRUMENTATION		THEORY		
Grade 9	Treble Choir	Sr. High Chorus	Wind Ensemble Honors	Concert Band			
	↓			↙			
Grade 10	Concert Choir Honors	Sr. High Chorus	Wind Ensemble Honors	Concert Band	Music Technology 1 or 2	AP Music Theory	Jazz Ensemble
		↙		↙			
Grade 11	Concert Choir Honors	Sr. High Chorus	Wind Ensemble Honors	Concert Band	Music Technology 1 or 2	AP Music Theory	Jazz Ensemble
		↙		↙			
Grade 12	Concert Choir Honors	Sr. High Chorus	Wind Ensemble Honors	Concert Band	Music Tech 1 or 2	AP Music Theory	Jazz Ensemble

HEALTH

HEALTH (7520)

Level: Required for graduation

Grade Recommendation: 10

Prerequisite: Required for graduation

Credit: ½ Unit

Course Content: This course encourages healthy decision making, positive risk-taking, and the understanding of effective communication. It is designed to help students attain accurate, thorough information that will positively influence health practices and responsibility for personal wellness. Students will recognize the importance of leading an active and healthy lifestyle, and also recognize negative health risks. Students will learn how to reach and maintain an optimum level of wellness and quality of life.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 9-12

Co-Ed 9/10 (7011)

Co-Ed 11/12 (7031)

Level: Required

Grade Recommendation: 9-12

Prerequisite: Required for graduation

Credit: ½ Unit per year

Course Content: This course encourages a healthy and active lifestyle. The emphasis of high school PE is on fitness and lifetime activities. Activities offered are; New York State Fitness Gram testing, badminton, golf, archery, table tennis, disc golf, yoga, Pilates and pickleball. Also included are team games such as basketball, volleyball, ultimate football, softball, soccer, floor hockey, and ultimate disc games. Cooperative and recreational games are incorporated to promote positive risk taking, build self-esteem and foster character development.



SCIENCE

COURSE	LENGTH	CREDIT
Physical Setting: Earth Science*	40 wks.	1
Physical Setting: Earth Science Honors*	40 wks.	1
Living Environment: Biology *	40 wks.	1
Living Environment: Biology Honors*	40 wks.	1
Physical Setting: Chemistry*	40 wks.	1
Physical Setting: Chemistry Honors*	40 wks.	1
Physical Setting: Physics*	40 wks.	1
AP Biology **	40 wks.	1
AP Chemistry **	40 wks.	1
AP Physics**	40 wks.	1
Intro to Agriscience+	40 wks.	1
Environmental Science	20 wks.	½
Forensic Science	20 wks.	½
Principles of Human Anatomy	20 wks.	½

*Regents exam is given

** An AP exam is offered for college credit

+Not NCAA approved

Science Laboratory Requirement

Regents sciences have a mandated laboratory requirement. Successful completion of a Regents science course earns one unit of credit in a laboratory science. Each student must be engaged in laboratory activities for at least thirty 40-minute periods (or equivalent).

Section 207 of the Education Law, Section 8.2 (c) of the Rules of the Board of Regents states: "Only those persons who have satisfactorily met the laboratory requirements as stated in the State Syllabus for science shall be admitted to the Regents examination in such science."

PHYSICAL SETTING: EARTH SCIENCE and LAB (4050/4060)

Level: Regents

Grade Recommendation: 9

Prerequisite: Science 8

Credit: 1 Unit

Course Content: This interdisciplinary course includes the following topics: the rock cycle, earth's energy, meteorology, earth's motions, earth's

history, and plate tectonics.

Activities involve observation, data collection,

classification, and prediction. Real-time data and Internet technologies are emphasized. The dynamic changes of the physical world are the main focus and environmental stewardship is addressed.

The Earth Science Regents exam is required. All labs must be completed and the lab practical taken to be eligible for the Regents exam in June.

PHYSICAL SETTING: EARTH SCIENCE HONORS and LAB (4056/4066)

Level: Regents Honors

Grade Recommendation: 9

Prerequisite: Biology

Credit: 1 Unit

Course Content: This course covers the curriculum from the Physical Setting: Earth Science Regents course. Emphasis is placed on in-depth studies of topics, long-term investigations, a high degree of independent work and increased science literacy. Students should be critical thinkers and excel at synthesis, analysis, and evaluation skills.

LIVING ENVIRONMENT: BIOLOGY and LAB (4100/4110)

Level: Regents

Grade Recommendation: 10

Prerequisite: Earth Science

Credit: 1 Unit

Course Content:

This course provides background knowledge in the biological sciences.

The Living Environment: Biology Regents exam is required. All labs must be completed to be eligible for the Regents exam in June.

There is special emphasis on ecology leading to an increased awareness of the results of human interaction with the environment. Students study scientific inquiry in biology and are required to complete related activities.

LIVING ENVIRONMENT: BIOLOGY HONORS and LAB (4104/4114)

Level: Regents Honors

Grade Recommendations: 9, 10

Prerequisite: 8/9 grade Earth Science; Teacher recommendation & 85% on the Regents Exam

Credit: 1 Unit

Course Content:

This course is a comprehensive course in life science. It is

The Living Environment: Biology Regents exam is required. All labs must be completed to be eligible for the Regents exam in June.

designed to give students an in-depth background

in a diversity of biological concepts. Emphasis is placed on critical thinking, problem-solving skills, inquiry-based learning and increased science literacy. Dissections and independent projects are included.

PHYSICAL SETTING: CHEMISTRY and LAB (4130/4140)

Level: Regents

Grade Recommendation: 10-12

Prerequisite: Living Environment: Biology & Geometry

Credit: 1 Unit

Course Content:

This course offers a mixture of theoretical study and a concrete base of chemical

knowledge. Proper use of equipment and chemicals is emphasized. The principles of chemistry are presented in a logical sequence beginning with the mechanics of chemistry, the structure of matter, and the mole concept. Labs cover techniques as well as theoretical and practical application of existing knowledge.

The Chemistry Regents exam is required. All labs must be completed in order to be eligible for the Regents exam in June.

PHYSICAL SETTING: CHEMISTRY HONORS and LAB (4132/4133)

Level: Regents Honors

Grade Recommendation: 10-12

Prerequisite: 85 average in both Biology and Earth Science

Credit: 1 Unit

Course Content:

This course presents a modern view of chemistry designed for the college-bound student who plans to major in science and/or is planning to take Advanced Placement Biology and/or Chemistry. This course differs from Regents Chemistry in the depth of topics covered, including a stronger emphasis on mathematical formulation.

A Chemistry Regents exam is required. All labs must be completed in order to be eligible for the Regents exam in June.

PHYSICAL SETTING: PHYSICS and LAB (4160/4170)

Level: Regents

Grade Recommendation: 11, 12

Prerequisite: Integrated Algebra and Geometry. Current or past enrollment in Algebra II recommended.

Credit: 1 Unit

Course Content:

This course covers the basic laws that control our environment.

The Physics Regents exam is required. All labs must be completed to be eligible for the Regents exam in June.

Students apply mathematical theory to real problems as they relate to the physical concepts studied. Included units cover mechanics (motion), modern physics, light, sound, electricity and magnetism.

AP BIOLOGY (4103)

Level: Advanced Placement

Grade Recommendation: 11, 12

Prerequisite: Living Environment: Biology or Biology Honors **and** Physical Setting: Chemistry or Chemistry Honors

Credit: 1 Unit

Course Content: This course is equivalent to a college introductory class for biology majors.

The AP exam is offered for college credit in May.

Students will learn the concepts and skills necessary to deal with the rapidly changing science of biology. Big ideas include evolution, free energy and homeostasis, information storage, and the interactions between biological systems. **All students are expected to take the AP exam in May. There is a fee for the Advanced Placement test.**

AP CHEMISTRY (4190)

Level: Advanced Placement

Grade Recommendation: 11, 12

Prerequisite: Physical Setting: Chemistry or Chemistry Honors **and** Living Environment: Biology or Biology Honors

Credit: 1 Unit

Course Content: This course is equivalent to a college-level general

The AP exam is offered for college credit in May.

chemistry course. Students will acquire an in-depth understanding of the fundamentals of chemistry and competence in dealing with the six big ideas set forth by the College Board. These include matter in terms of arrangement of atoms, structure and properties of atoms, ions and molecules, chemical changes, rates of chemical change, laws of thermodynamics, and equilibrium in chemical and physical reactions. There is a strong emphasis on the theoretical aspects of chemistry. **All students are expected to take the AP exam in May. There is a fee for the Advanced Placement Test.**

AP PHYSICS (4165)**Level:** Advanced Placement**Grade Recommendation:** 11, 12**Prerequisite:** Algebra II, PreCalculus (recommended)**Credit:** 1 Unit

Course Content: This course is equivalent to a college-level general physics course and may be taken without prior physics experience. Units include kinematics and motion, dynamics, circular motion and gravitation, energy, momentum, and rotational motion. There is a strong emphasis on conceptual understanding. Additional topics will be covered after the AP exam to prepare AP students for the Regents exam. **All students are expected to take the AP exam in May. All AP students must also take the Regents exam. There is a fee for the Advanced Placement Test.**

The AP exam is offered for college credit in May.

INTRO TO AGRISCIENCE (4185)**Level:** Elective**Grade Recommendation:** 11, 12**Prerequisite:** Living Environment: Biology **and** at least two years of High School Math.**Credit:** 1 Unit

Course Content: This course is designed to introduce the student to the many aspects of agriscience. The focus of this class is to identify where our food comes from. Students will be able to study different livestock and plant crops that are grown to feed both animals and humans. Forestry, Wildlife Conservation, and Aquaculture are also studied. We will also study how technology has improved the life of a person that is involved with agriculture.

**ENVIRONMENTAL SCIENCE (4055)****Level:** Elective**Grade Recommendation:** 11, 12**Prerequisite:** Earth Science or Earth Science Honors or Living Environment: Biology or Biology Honors**Credit:** ½ Unit

Course Content: This course studies the ecology of the earth and the impact of humans. The course is taught from a scientific point of view through a global perspective. In addition, students will have a hands-on experience in survival techniques (building shelters and snowshoes and fire-starting).

FORENSICS (4065)**Level:** Elective**Grade Recommendation:** 11, 12**Prerequisite:** Living Environment: Biology**Credit:** ½ Unit

Course Content: This course is designed to emphasize the laboratory techniques used by forensic scientists in the analysis of crimes. Techniques studied include analytical chemistry, toxicology, fingerprinting, DNA analysis, crime scene management, and investigative procedures. Case studies of actual crimes are discussed. Additional activities include solving a “murder mystery” and researching an independent case-study of a crime.

PRINCIPLES OF HUMAN ANATOMY (4054)**Level:** Elective**Grade Recommendation:** 11, 12**Prerequisite:** Living Environment: Biology or Biology Honors and Chemistry**Credit:** ½ Unit

Course Content: This course is a challenging science elective. It includes areas of human anatomy such as the skeletal and muscular system. We will also cover the human digestive, nervous, circulatory, endocrine, integumentary and reproductive systems. Students interested in a health career such as medicine (MD), physician’s assistant (PA), physical or occupational therapist (DPT, DOT), nursing (RN, NP), athletic trainer (AT), should take this course.

SOCIAL STUDIES

COURSE	LENGTH	CREDIT
Intro to AP World History	40 wks.	1
Global History 9	40 wks.	1
Global History 10 *	40 wks.	1
AP World History *, **	40 wks.	1
U.S. History *	40 wks.	1
AP U.S. History *, **	40 wks.	1
Economics	20 wks.	½
Participation in Government	20 wks.	½
AP Macroeconomics **	***40 wks.	½
AP U.S. Gov. & Politics **	***40 wks.	½
Criminal Justice	20 wks.	½
Psychology	20 wks.	½
World War II	20 wks.	½

* A Regents exam is given.

**An AP exam is offered for college credit.

*** Meets every other day

INTRO TO AP WORLD HISTORY 9 (2050)

Level: Advanced Placement

Grade Recommendation: 9

Prerequisite: A high 3 or 4 on the 8th grade ELA exam, a 90% average in 8th grade social studies, and teacher recommendation

Credit: 1 Unit

Course Content: This course is the equivalent of the first half of a writing-intensive, college-level world history course. The units of study for this course are the first two and a half units of Advanced Placement World History. AP World History offers an approach that lets students “do history” by guiding them through the steps a historian would take in analyzing historical events and evidence worldwide. Students should be motivated to engage in the challenging workload of a college-level course. Summer assignments may be required.



GLOBAL HISTORY 9 (2051)

Level: Regents

Grade Recommendation: 9

Prerequisite: Grade 8 Social Studies

Credit: 1 Unit

Course Content: This course provides a chronological approach to history from the beginning of time to the French Revolution. Critical thinking is fostered by using the scientific method as a way to solve problems. The role of the historian and anthropologist in writing history is identified. Different and competing interpretations of history are offered. There is a strong emphasis on thematic essay writing and document-based essay writing.

GLOBAL HISTORY 10 (2131)

Level: Regents

Grade Recommendation: 10

Prerequisite: Global History & Geography 9

Credit: 1 Unit

Course Content: This course is a continuation of Global History 9 and provides a chronological approach to history from the French Revolution to the present day. It is designed to emphasize skills such as critical thinking by using the scientific method as a way to solve problems. Different and competing interpretations of history are studied. There is a strong emphasis on thematic essay writing and document-based essay writing.

The Global History & Geography Regents exam is required

AP WORLD HISTORY (2120)

Level: Advanced Placement

Grade Recommendation: 10

Prerequisite: Intro to AP World History

Credit: 1 Unit

Course Content: This course is equivalent to a college World History course and is a continuation of the Intro to AP World History course. Students engage with the dynamics of continuity and change across the historical periods that are included in the course. Students will analyze the processes and causes involved in these continuities and changes. The course focuses on FIVE overarching themes that provide ways to make comparisons over time and facilitate cross-period questions. Summer assignments may be required. **There is a fee for the Advanced Placement test.**

The Global History & Geography Regents exam is required. The AP exam is offered in May.

US HISTORY (2150)**Level:** Regents**Grade Recommendation:** 11**Prerequisite:** Global History 10**Credit:** 1 Unit

Course Content: This course is divided into six units: Constitutional Foundations for the U.S. Democratic Republic; Industrialization of the United States; The Progressive Movement; At Home and Abroad – Prosperity and Depression (1917-1940); The United States in an Age of Global Crisis, Responsibility and Cooperation; A World in Uncertain Times (1950 to present).

The US History Regents exam is required.

AP UNITED STATES HISTORY (2160)**Level:** Advanced Placement**Grade Recommendation:** 11**Prerequisite:** Open Enrollment, Global History 10 or AP World History**Credit:** 1 Unit

Course Content: This course is equivalent to a college-level course in American History. It includes an in-depth analysis of U.S. History and the changing interpretations of that history. The course will begin in pre-Columbian times and continue through the late 20th century. Summer reading, daily outside reading, writing assignments and independent research projects are required. **There is a fee for the Advanced Placement test. Last date to drop from AP to Regents U.S. History and Government is the end of the second week of school in September.**

The US History Regents exam is required. The AP exam is offered for college credit in May.

ECONOMICS (2250)**Level:** Regents**Grade Recommendation:** 12**Prerequisite:** US History**Credit:** ½ Unit

Course Content: This course provides an understanding of the following: the economic system of the United States and its operation; the student's role in the economic system; the economic interdependence of the world today; basic economic concepts; the political and social impact of economic decisions; and basic differences between major economic decisions.

PARTICIPATION IN GOVERNMENT (2320)**Level:** Regents**Grade Recommendation:** 12**Prerequisite:** US History**Credit:** ½ Unit

Course Content: This course combines community-based learning, issue-based learning and civic learning that are necessary for effective citizenship. Students are introduced to government processes, and the importance of citizen participation is stressed

AP MACROECONOMICS (2240)**Level:** Advanced Placement**Grade Recommendation:** 12**Prerequisite:** US History**Credit:** ½ Unit, offered every other day all year

Course Content: AP Macroeconomics is a course designed to provide students with a thorough understanding of the principles of economics in examining aggregate economic behavior. Students taking the course can expect to learn how the measures of economic performance, such as GDP, inflation and unemployment, are constructed and how to apply them to evaluate the macroeconomics, primarily the aggregate demand and aggregate supply model and its application in the analysis and determination of national income, as well as evaluating the effectiveness of fiscal policy and monetary policy in promoting economic growth and stability. Recognizing the global nature of economics, students will also have ample opportunities to examine the impact of international trade and international finance on national economics. Various economic schools of thought are introduced as solutions to economic problems are considered.

The AP exam is offered for college credit in May. There is a fee for the Advanced Placement test.



AP UNITED STATES GOVERNMENT AND POLITICS (2340)

Level: Advanced Placement

Grade Recommendation: 12

Prerequisite: Open Enrollment, U.S. History and Government

Credit: ½ Unit, offered every other day all year

Course Content: This course is equivalent to a college-level political science course. Topics are explored in depth through research, writing assignments, and the use of readings done outside of class. Students are given an analytical perspective on government and politics in the United States. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. **There is a fee for the Advanced Placement test.**

The AP exam is offered for college credit in May.

CRIMINAL JUSTICE (2210)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: Global History & Geo. 9 and 10

Credit: ½ Unit

Course Content: This course studies the criminal justice process in the United States. Opposing viewpoints concerning controversial topics are presented for study and discussion. Throughout the study of the process, the following topics are examined and evaluated: crime, police, courts, corrections, and juvenile justice versus adult justice.

PSYCHOLOGY (2230)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: Global History & Geo. 9 and 10

Credit: ½ Unit

Course Content: This course is a general survey course involving the study of behavior as it occurs within an environment. The curriculum includes: studying psychology scientifically; designing and participating in a psychology experiment; measuring intelligence, learning, remembering, and forgetting; thinking critically and creatively; Heredity vs. Environment; Sensation and Perception; Psychology – Past and Present; and Abnormal Psychology.

WORLD WAR II (2215)

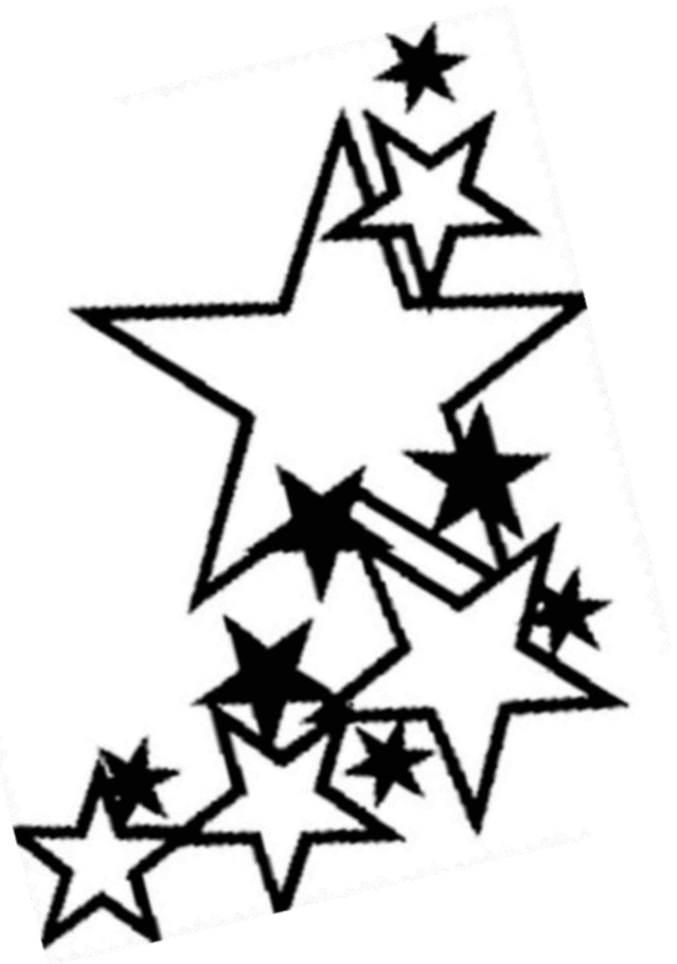
Level: Elective

Grade Recommendation: 11, 12

Prerequisite: Global History & Geography 9 and 10

Credit: ½ Unit

Course Content: This is a social studies history elective on World War II open to juniors and seniors. This semester long course will cover the causes, events, and lasting effect of World War II on the world. We will look at military, political, and social events connected to the war. Activities will include class debates and presentations, film and document analysis, interviews, and class discussions.



SPECIAL EDUCATION

CONSULTANT TEACHER PROGRAM

9: 1295

11: 1297

10: 1296

12: 1298

Level: Remedial

Grade Recommendation: 9-10-11-12

Prerequisite: Recommendation of Committee on Special Education

Credit: None

Course Content: The Consultant Teacher model is a less restrictive environment on the continuum of special education services. This model meets student needs within the regular education setting. Students are mainstreamed in all classes deemed appropriate by the Committee on Special Education. Support is provided through conferences and consultation with the general education teacher. Students' learning may be supported by an Academic Support class, which is taught by the Special Education staff.

PRIMARY INSTRUCTION CLASSES

Primary English (1187)

Primary Math (1191)

Primary Life Skills (1193)

Level: Primary Instruction

Grade Recommendation: 9-10-11-12

Prerequisite: Recommendation of Committee on Special Education

Credit: Credential Certificate

1. Skills and Achievement

Commencement Credential

Course Content: Primary instruction classes are designed to meet the academic and social needs of students through an individualized program. The course work relates to the individual student's IEP. Mathematics, English, and Life Skills classes are available depending upon student schedules and IEP goals and objectives.



TECHNOLOGY

COURSE	LENGTH	CREDIT
Civil Engineering & Architecture	40 wks.	1
Computer Integrated Manufacturing (CIM)	40 wks.	1
Design & Drawing for Production (DDP)	40 wks.	1
Digital Electronics	40 wks.	1
Engineering Design	40 wks.	1
Robotics	20 wks.	½
STEM: Biology	40 wks.	1
STEM: Chemistry	40 wks.	1
STEM: Earth Science	40 wks.	1
STEM: Geometry	40 wks.	1
STEM: Physics *	40 wks.	1
Transportation Systems	20 wks.	½

*is an every-other year elective that will tentatively run during the 2025-2026 school year.

CIVIL ENGINEERING & ARCHITECTURE (8155)

Level: Elective

Grade Recommendation: 10-12

Prerequisite: None

Credit: 1 Unit

Course Content: This is a hands-on course where students use their creativity and imagination to solve various design problems as they relate to the living environment. Students learn about design principles, construction systems, structures, new building materials, and famous buildings around the world and in the Buffalo area. Students create basic sketches, line drawings, construct models, and participate in building activities. The final project is a building design and incorporates all of the information covered throughout the year.

COMPUTER INTEGRATED MANUFACTURING: CIM (8030)

Level: Elective (Max. Enrollment 24)

Grade Recommendation: 10-12

Prerequisite: DDP or CAD 3-D

Credit: 1 Unit

Course Content: Computer Integrated Manufacturing (CIM) is the study of manufacturing, planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. This course illuminates the opportunities

related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Also students whose class average is 85% and above in CIM and pass the end of course (EOC) exam could earn 3 RIT college credits. These credits are transferable to most 4-year colleges.

DESIGN AND DRAWING FOR PRODUCTION: DDP (8060)

Level: Elective (Max. Enrollment 24)

Grade Recommendation: 9-12

Prerequisite: None

Credit: 1 Unit

Course Content: This course teaches the students the form of graphic communication known as technical drawing. Technical drawing is used throughout the world to describe how things are made. Students use modern computer software (CAD – Autodesk Inventor) and traditional drafting equipment to create drawings. Creative skills are developed through the use of “design challenges”; students create their own solution to a given problem. This course covers all the material in the New York State approved course entitled DDP, and meets NYSED’s 1 Credit graduation requirement in Fine Arts. Also students whose class average is 85% and above in DDP and pass the end of course (EOC) exam could earn 3 RIT college credits. These credits are transferable to most 4-year colleges.

DIGITAL ELECTRONICS (8020)

Level: Elective (Max. Enrollment 24)

Grade Recommendation: 10-12

Prerequisite: None

Credit: 1 Unit

Course Content: Digital Electronics (DE) is the study of electronic circuits that are used to process and control digital signals as opposed to analog signals that are varying. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. Students whose class average is 85% and above in DE and pass the end of course (EOC) exam could earn 3 RIT college Credits. These credits are transferable to most 4-year colleges.

ENGINEERING DESIGN (8040)

Level: Elective

Grade Recommendation: 11, 12

Prerequisite: DDP or CIM

Credit: 1 Unit

Course Content: This is an open-ended engineering research course in which students work to design and develop an original solution to solve real world problems by applying an engineering design process. Students will apply information from prior technology/engineering courses to help research and justify a problem. Students use CAD software to create solutions for specific design challenges and build their design prototypes in the computer integrated machining lab. Additional instruction in the use of Computer Numeric Control (CNC), Laser Cutting, and 3D Printing, band saws, drill presses, etc. will be provided. There may be other projects from robotics to aerospace engineering.

ROBOTICS (8157)

Level: Elective

Grade Recommendation: 10-12

Prerequisite: None

Credit: ½ Unit

Course Content: This course is a hands-on experience of basic robotics. The main objective of this course is to learn how to build, program, and test robots. Some topics dealing with electricity and electronics will be covered. Projects throughout the year include sumo, autonomous and RC robots.

TRANSPORTATION SYSTEMS (8091)

Level: Elective

Grade Recommendation: 10-12

Prerequisite: None

Credit: ½ Unit

Course Content: Students develop engineering and design skills by participating in a series of problem-solving activities and contests throughout the course. Transportation is the movement of people, animals and goods from one location to another. In this class, we will explore each of the modes of transportation (air/space, marine, and land). The design challenges may include, but are not limited to flotation, rocket flight, CO2 cars, packaging/shipping, vehicle safety, and magnetic levitation vehicles.

STEM – BIOLOGY (8082)**Chemistry and Technology***Level: Elective**Grade Recommendation: 9-12**Prerequisite: None, but see requirement below***Credit: 1 Unit*

Course Content: This course was created to allow students to explore Biology and Technology principles in new and exciting ways! In this class, students will have an opportunity to invent their own solutions to everyday problems. Many of the projects within this course promote environmentally friendly alternatives to traditional practices. Projects may include, but are not limited to calorimeters, nutrition, hydroponics, biochemistry, DNA extraction, bioreactors, biotechnology, bioremediation, phytoremediation, enzyme-based detergents, recycled paper towels, biomimicry, etc.

* This course was developed to run in collaboration with the Biology course. It is recommended that you take this course when you enroll in, or if you have already taken, Biology.

** Maximum student enrollment is set at 20 students for obvious safety reasons within the laboratory environment.

STEM – CHEMISTRY (8081)**Chemistry and Technology***Level: Elective**Grade Recommendation: 10-12**Prerequisite: None, but see requirement below***Credit: 1 Unit*

Course Content: This is an innovative course that will allow students to explore Chemistry and Technology principles in new and exciting ways! In this class, students will have an opportunity to invent their own solutions to everyday problems. Using the technological/engineering design process students will use their creativity to construct working and testable models. Projects may include, but are not limited to edible water bottles, chemical reaction powered cars, human density, water purification, distillation, mystery tubes, cell potential in batteries, bubble solutions, titrations, etc.

* This course was developed to run in collaboration with the Chemistry course. It is recommended that you take this course when you enroll in, or if you have already taken, Chemistry.

** Maximum student enrollment is set at 20 students for obvious safety reasons within the laboratory environment.

STEM – EARTH SCIENCE (8083)**Chemistry and Technology***Level: Elective**Grade Recommendation: 9-12**Prerequisite: None, but see requirement below***Credit: 1 Unit*

Course Content: This course was created to allow students to explore Earth Science and Technology principles in new and exciting ways! In this class, students will have an opportunity to invent their own solutions to everyday problems. Projects may include, but are not limited to solstice/equinox markers, astrolabes, sundials, hydraulic fracturing, volcanic pressure, mimicking earthquakes, earthquake structures, water testing, erosion, topography, sun angles, weather, astrology, etc...

* This course was developed to run in collaboration with the Earth Science course. It is recommended that you take this course when you enroll in, or if you have already taken, Earth Science.

** Maximum student enrollment is set at 20 students for obvious safety reasons within the laboratory environment.

STEM – GEOMETRY (8084)*Level: Elective**Grade Recommendation: 9-12**Prerequisite: None, but see requirement below***Credit: 1 Unit*

Course Content: Have you ever been in a math class and asked yourself, "When am I ever going to use this?" If yes, then this class is for you! This course was created to allow students to explore and apply Geometry and Technology principles in new and exciting ways! In this class, students will have an opportunity to use math as a tool to invent their own solutions to everyday problems. Projects may include, but are not limited to designing patterns, logos, optical illusions, tree forts, measuring devices, swimming pools, game design, and gearing systems.

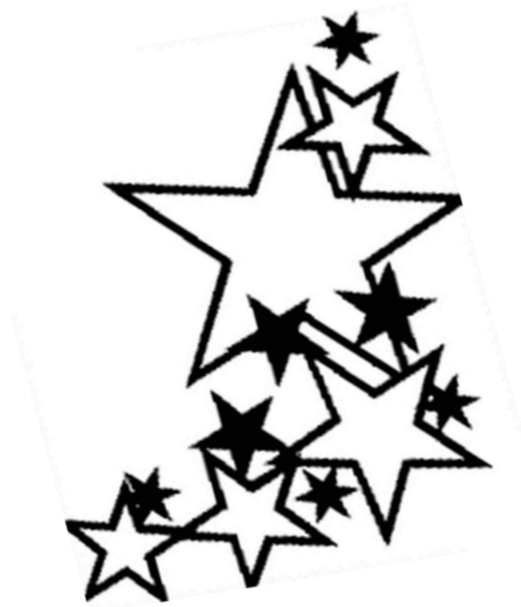
* This course was developed to run in collaboration with the Geometry course. It is recommended that you take this course when you enroll in, or if you have already taken, Geometry.

** Maximum student enrollment is set at 20 students

STEM – PHYSICS (8080)**Level:** Elective**Grade Recommendation:** 11, 12**Prerequisite:** Geometry and Algebra I**Credit:** 1 Unit

Course Content: This course will allow students to explore physics and technology concepts in new and exciting ways! In this class, students will have an opportunity to invent their own solutions to real-world challenges. Students will use the technological/engineering design process to construct working models and test their ideas. Projects may include, but are not limited to kinematic vehicle design, catapults, bridges, crumple zone design, power plant development, instrument design, solar cookers, etc.

* This course was developed to run in collaboration with the Physics course. It is recommended that you take this course when you enroll in, or if you have already taken, Physics.



Technology Department				
Grade Level Recommendations for Silos				
(To complete a 4-5 course sequence in Technology/STEM we recommend taking the courses at the grade levels indicated below)				
	9	10	11	12
PLTW	Design & Draw for Production (DDP)	Design & Draw for Production (DDP)		
		Civil Engineering & Architecture	Civil Engineering & Architecture	Civil Engineering & Architecture
		Computer Integrated Manufacturing (CIM)	Computer Integrated Manufacturing (CIM)	Computer Integrated Manufacturing (CIM)
		Digital Electronics	Digital Electronics	Digital Electronics
STEM	STEM: Geometry	STEM: Geometry		
	STEM: Earth Science			
	STEM: Biology	STEM: Biology		
		STEM: Chemistry	STEM: Chemistry	STEM: Chemistry
			STEM: Physics	STEM: Physics
Traditional Courses	Transportation Systems	Transportation Systems		
			Engineering CAD	Engineering CAD
			Robotics	Robotics

WORLD LANGUAGES

COURSE	LENGTH	CREDIT
French 2	40 wks.	1
French 3 *	40 wks.	1
French 4 Advanced ***	40 wks.	1
French 5 Advanced ***	40 wks.	1
Spanish 2	40 wks.	1
Spanish 3 *	40 wks.	1
Spanish 4 Honors	40 wks.	1
Spanish 5 Advanced **	40 wks.	1

*A New York State Comprehensive Regional Exam is given as the final and must be passed in order to obtain Advanced Regents credit

**CLEP exam is given.

***NUSTEP program; 3 college credits can be earned

FRENCH 2 (5150)

Level: Regents

Grade Recommendation: 9

Prerequisite: Completion of two (2) units of study and a passing grade on the local exam

Credit: 1 Unit

Course Content: French 2 develops interpretive, interpersonal and presentational communication skills. Emphasis is given to oral proficiency. Students practice speaking in class through conversational activities based upon practical situations. These add to the students' vocabulary and ability to effectively speak the language. French culture is also discussed.

FRENCH 3 (5160)

A Comprehensive Regional Exam is given for Advanced Regents credit.

Level: Regents

Grade Recommendation: 10

Prerequisite: French 2

Credit: 1 Unit

Course Content: This course extensively studies vocabulary dealing with a variety of topics such as travel, personal care, transportation and food. In grammar several new tenses are taught, including the imperfect, future, and subjunctive tenses. Extensive listening and reading comprehension preparation is done. Oral proficiency is stressed and interpretive, interpersonal and presentational communication

A NYS Comprehensive
Regional exam is given.

skills are broadened. Culture continues to be studied.

FRENCH 4 ADVANCED (5170)

Level: College

Grade recommendation: 11

Prerequisite: 80% on the Comprehensive Regional exam and/or teacher recommendation

Credit: 1 Unit

Course Content: This course is the equivalent of a college level course. The curriculum, textbook, materials, and final exams are those used at Niagara University. This course incorporates the NYS standards of interpretive interpersonal and presentational communication along with French culture. Students develop the conversational skills and vocabulary needed to communicate in everyday situations. Oral proficiency is stressed and French culture and customs are studied. Projects are assigned that allow students to demonstrate their competency in the current area of study. Current events will be discussed, a novel will be read, and skits will be developed. **There is a fee for the NUSTEP program; 3 college credits can be earned.**

FRENCH 5 ADVANCED (5180)

Level: College

Grade Recommendation: 12

Prerequisite: 80% overall average in French 4 Honors and/or teacher recommendation

Credit: 1 Unit

Course Content: This course is the equivalent of a college level course. The curriculum, textbook, materials, and final exams are those used at Niagara University. Students will develop conversational skills through practical application of the language in everyday usage. Oral proficiency is central to the course and complex grammar and vocabulary are stressed. Customs, French culture, artists, and current events are studied. Interpretive, interpersonal and presentational skills continue to strengthened. A novel will be read and skits will be created. **There is a fee for the NUSTEP program; 3 college credits can be earned.**

SPANISH 2 (5060)

Level: Regents

Grade Recommendation: 9

Prerequisite: Completion of two (2) units of study and a mastery grade on the Proficiency Exam

Credit: 1 Unit

Course Content: This course is a continuation of Spanish 1; the skills of listening, speaking, reading, and writing are developed further. Students practice speaking in class through conversational activities based upon practical situations. Short novels are presented thematically. Students continue to gain knowledge of the cultures, customs, and traditions of various Hispanic countries. A local exam is given.

SPANISH 3 (5070) *A Comprehensive Regional Exam is given for Advanced Regents credit.*

Level: Regents

Grade Recommendation: 10

Prerequisite: Spanish 2

Credit: 1 Unit

Course Content: This course stresses and develops interpretive, interpersonal, and presentational communication skills. History and culture are presented through reading passages and supplemental materials in the Spanish language. Short novels, biographies, and films are used to greater understand culture and language.

A NYS Comprehensive Regional exam is given.

SPANISH 4 HONORS (5080)

Level: Honors

Grade recommendation: 11

Prerequisite: 80% on the Comprehensive Regional Exam and/or teacher recommendation

Credit: 1 Unit

Course Content: This course applies the language proficiency skills to practical and communicative foreign language activities. Students will continue to develop conversational skills and vocabulary needed to communicate with a native Spanish speaker. Students will read Spanish materials and view videos to increase awareness of culture customs, traditions, and politics of Spanish-speaking countries. Students will read thematic works and present comments and opinions in both oral and written forms.

SPANISH 5 ADVANCED (5090)

Level: College

Grade Recommendation: 12

Prerequisite: 80% overall average in Spanish 4 Honors and/or teacher recommendation

Credit: 1 Unit

Course Content: This course continues to develop students' conversational skills through practical application of the language in everyday usage. Grammar is reviewed and more complex grammatical structures and verb tenses are covered. Students will present projects, view Spanish advertising, documentaries, movies, and read a Spanish novel. Students will also research and comment on current event topics. Computer research in the Spanish language is required. Students will have the opportunity to take the College-Level Examination Program (CLEP) exam (fee required) for college credit in Spanish. **Up to 9 college credits can be earned. There is a fee for the CLEP Exam.**

**** Students enrolled in Level 5 (checkpoint C) are now eligible to achieve the NYSSB (New York State Seal of Bi-literacy) upon completion of requirements.**



CAREER & TECHNICAL EDUCATION BOCES

The Career and Technical Education program prepares students for employment after high school or for college (college prep courses).

Required Standards for Career and Technical Education

Starpoint High School's goal is for all students to meet and exceed state and local graduation requirements. Students must meet identified benchmarks prior to enrolling in BOCES programs.

Therefore, students interested in pursuing a CTE program at BOCES must have completed a minimum of ten (10) credits. Students must complete the following: two units of math, two units of science including Living Environment: Biology and one Physical Setting course (may be taken concurrent with BOCES), Global Studies 9 and 10, English 9 and 10, one unit of physical education, and one unit of art and/or music.

ALLIED HEALTH (9230, 9231)

Level: BOCES

Grade Recommendation: 11, 12

Prerequisite: Required standards plus a 65 or better on the Integrated Algebra 1 exam and Living Environment: Biology

Credit: 3 Units per year

Course Content: This course is for the student who wants to be in a health field: X-ray technician, occupational or physical therapy assistant, EKG technician, medical lab assistant, etc. Several periods each day are spent at a local hospital rotating through and "shadowing" all the medical specialties.

ANIMAL SCIENCE (9235, 9245)

Level: BOCES

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: The Animal Science program is for students who have a desire to work with large or small animals. Students will recognize the important roles animals play in society from individual ownership to scientific research with far reaching implications. This technical course teaches specialized and advanced skills in areas such as

veterinary assisting, care and handling of animals in a laboratory or veterinary setting, dog grooming, and kennel/pet shop management. It provides students with the opportunity to care for and be exposed to a wide variety of animals within the classroom and community setting. Students will operate a grooming parlor that is used as a learning model for the handling and caretaking of animals. They will use the tools of the trade, including diagnostic and grooming equipment. Upon successful completion of this program, students may receive college credits pending established procedures.

ANIMATION, FILM & VIDEO EFFECTS (9555/9556)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This program is comprised of two one-year courses designed to prepare students for future education and careers in video production and animation. Our college-level media production facilities include digital video and audio equipment, a green screen and studio space, and Macintosh workstations. Students are trained to use industry-standard software, including Adobe Flash, Apple Final Cut Pro, Motion, Blender, Audacity, Adobe Photoshop and Adobe Illustrator.

This program is open to juniors and seniors in both the morning and afternoon sessions. The courses are nonconsecutive, so students may take one or both courses, in either order. Students enrolling in the Digital Media program should possess a solid English and math background (art and media classes are beneficial) and be on track for a Regents Diploma.

AUTO BODY (9260/9270)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course is a program for students seeking a career in the automotive industry. It is designed to give comprehensive training in the repair, painting, and finishing of automobile bodies and fenders; frame and body alignment; installation of upholstery, body trim, hardware, door locks and remote controls; and glass window regulators.

AUTO TECHNOLOGY (9280/9290)**Level:** BOCES, Sanborn**Grade Recommendation:** 11, 12**Prerequisite:** Required standards**Credit:** 3 Units per year

Course Content: This two-year course provides students with mechanical repair skills in the automotive industry. Training in mechanical repair and theory to diagnose problems and make the necessary corrections is offered. Students learn to work from shop manuals and technical publications and operate large machines and diagnostic equipment for systems evaluation and repair. Students trained in this program possess general knowledge.

BUILDING MAINTENANCE AND MANAGEMENT (9300/9310)**Level:** BOCES, Sanborn**Grade Recommendation:** 11, 12**Prerequisite:** Required standards**Credit:** 3 Units per year

Course Content: This two-year course is designed to prepare students to enter directly into the trades or continue their education at a post-secondary level. This year an articulation agreement with the Carpenters Local 23 and Local 280 will be developed, which will grant pre-apprentice status to graduates who meet the higher skill standard.

CERTIFIED PERSONAL TRAINER (9305/9306)**Level:** BOCES, Sanborn**Grade Recommendation:** 11, 12**Prerequisite:** Required standards**Credit:** 3 Units per year

Course Content: This course is designed for the individual seeking competency in health, fitness and exercise instruction. Students will perform fundamental health and fitness assessments and learn to design and implement fitness programs for the healthy population. During the course students are provided with the most relevant scientific information regarding the assessment, design and implementation of safe, effective and efficient personal exercise instruction.

CONSERVATION (9320/9330)**Level:** BOCES, Sanborn**Grade Recommendation:** 11, 12**Prerequisite:** Required standards**Credit:** 3 Units per year

Course Content: This two-year course is designed for students who have a desire to work outdoors and have a concern for the environment and its natural resources. Some of the activities and programs that will be part of this class are developing and implementing a Forest Management Plan, Guiding and Wildlife Interpretation, Equipment Operation, Park Management and Operations, and Greenhouse Management.

COMPUTER TECHNOLOGY (9355/9356)**Level:** BOCES**Grade Recommendation:** 11, 12**Prerequisite:** Required standards**Credit:** 3 Units per year

Course Content: This program is open to all students in their junior or senior year. Students will learn about all aspects of computer technology including standard software packages, operating systems and hardware architecture.

COSMETOLOGY (9360/9370)**Level:** BOCES, Sanborn**Grade Recommendation:** 11, 12**Prerequisite:** Required standards**Credit:** 3 Units per year

Course Content: This two-year course includes all phases of training necessary to become a licensed cosmetologist. Students enrolled must accumulate 1,000 hours of instruction and pass the state exams. Units of study include: Professionalism, Decontamination/Infection Control, Scalp and Hair Procedures and Theory, Hair Cutting, Permanent Waving, Hair Coloring, Chemical Hair Relaxing, Hair Styling, Artificial Hair, Nails Procedure and Theory, Skin Care Procedure and Theory, Hair Removal, Safety, Employability Skills and Salon Business.

CULINARY ARTS (9440/9450)**Level:** BOCES, Sanborn**Grade Recommendation:** 11, 12**Prerequisite:** Required standards**Credit:** 3 Units per year

Course Content: This two-year course exposes students to the variety of careers available within the food service and food preparation field. By actual participation, students will become familiar with the workings of a modern kitchen while preparing foods



of various types. This training will prepare them for future employment in both preparation and serving. This program will also qualify students for acceptance at post-secondary schools specializing in training necessary to become master chefs, restaurant managers, owners, or to become instructors of food service trades.

EARLY CHILDHOOD EDUCATION (9340/9350)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This is a one- or two-year program with a preschool as a critical component of the program. Students who complete this program will be trained as early childhood workers. They will be prepared to complete the Child Development Associate credential with from 218 to 284 hours of the required 480 hours. If they maintain an average of 85% over two years they can gain 6 credits at Niagara County Community College.

ELECTRICITY/ELECTRONICS (9400/9410)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course covers residential and commercial wiring, motors, and generators: types, trouble-shooting, hookup, repair, maintenance, and controls. Students will have a good understanding of electronics theory. Students work on industrial controls, small appliance repair, color TV, and all electrical and electronics-related fields. Initial applications take place with class exercises and experiments.

EMERGENCY MEDICAL SERVICES (9670/9680)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course includes experiences in labs and emergency rooms in local hospitals, autopsy/gross anatomy labs, and ambulances. Instruction includes areas of emergency medical services.

First Year: HOE Core, First Aid, CPR – professional rescuer, National Safety Council responder, Project Adventure

Second Year: Certified emergency dispatcher, defibrillator, EKG, phlebotomy, New York State Certified First Responder

FASHION DESIGN & INTERIOR DECORATING (9445/9446)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course focuses on the world of fashion. The program is divided into four key components:

- Computer application
- Design, illustration, and color
- Apparel construction and methods, pattern drafting and draping
- The business of fashion

Students will use state-of-the-art computer software, sewing machines; equipment related to the fashion industry and create their own designs and projects throughout the program. They will complete a variety of projects, and plan and run a fashion show presentation.

GRAPHIC COMMUNICATIONS (9540/9550)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course prepares students for employment in the graphics industry. Currently, it is the only program in Western New York with national accreditation. PrintED is administered by the Graphic Arts Education and Research Foundation (GAERF) and is the industry's national accreditation program for graphic communications courses of study at the secondary and post-secondary levels. A student who is a creative and goal-oriented individual, who can work



diligently to complete artistic projects, will possess an advantage in their future education and career path with a technical endorsement and industry accreditation.

HEALTH OCCUPATIONS TECHNICIAN

(9200/9210)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course provides experience and exposure to multiple health fields. Experiences will be in multiple clinical settings in local health care facilities. Students will learn to take vital signs, the use of proper body mechanics, safe transfer of patients, use of oxygen, applying dressings and bandages, gloving and isolation techniques, compiling a chart, and completing requisition forms. This course is also an introduction to anatomy and physiology, medical terminology, ethics and legalities, etc. Students can take Certified Nursing Assistant exams and become certified in CPR and First Aid and gain certification in Child Abuse Recognition.

HEATING, VENTILATION, AIR CONDITIONING

(HVAC) (9240/9250)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This is a two-year course designed to provide students with employable skills in the service and installation of residential and commercial air conditioning, heating and refrigeration units. Students will have working knowledge of various components in numerous control systems, their operations separately and in combination with other controls.

DIESEL TECH / HEAVY EQUIPMENT

(9380/9390)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: Students who have found an interest in working with machines in the construction, agriculture, trucking and bus industry, lawn and garden industry, small engine automotive, welding, industrial machine maintenance and armed forces should consider this two-year

program. Students will be working on trucks, farm tractors, forklifts, backhoes, bulldozers, lawn mowers and small engines. Students will also work in groups for engine tear down, overhaul and failure analysis.

PROJECT BASED ENGINEERING (9237/9236)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course teaches problem-solving skills using a design development process; models of product solutions are created, analyzed and communicated using solid modeling computer design software. Students use equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included. Students work in teams to research, design and construct a solution to an open-ended engineering problem. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year. In our high tech lab, each student is responsible for bringing their designs to life. All students will learn to program and operate industrial machine tools including mills, lathes, grinders and state of the art CNC equipment. In addition, all students will study and master the use of manufacturing inspection tools and complete inspection reports as necessary.

SECURITY AND LAW ENFORCEMENT

(9565/9575)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course prepares students for jobs in both public and private security. Public security may include jobs in federal or local police agencies, transportation and public housing agencies, and prisons. Private security may include jobs as bodyguards in shopping malls, stores, at hotels/motels, and industrial plants.



WEB AND GAME DESIGN (9664/9665)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite:

Credit:

Course Content: During the Web Development course, students will gain experience with interface design, form creation and processing and Web coding. They will evaluate existing Web sites, learn programming syntax and create their own sites using html5, css3, JavaScript and PHP. All the foundation skills in Web Development will be covered, including navigation links, images, graphics, and styling. Developing sites for mobile platforms will also be covered. They will also develop skills with the latest industry-standard design software, including Adobe Dreamweaver and Photoshop. Developing sites for mobile platforms will also be covered.

The Game Programming course will introduce students to the elements of game creation and common game programming languages. Students will learn game history, pre-production strategies, and incorporate game theory into the development of their own non-digital and digital games. They will work with game design applications such as Unity and Swift. Developing games for mobile platforms will also be covered.

WELDING (9500/9510)

Level: BOCES, Sanborn

Grade Recommendation: 11, 12

Prerequisite: Required standards

Credit: 3 Units per year

Course Content: This two-year course develops skills in all areas of welding, especially those areas where there is greatest employment potential. Approximately one quarter of the course is devoted to fabrications methods and the production of welded items.

For additional information in regards to BOCES courses, please visit the O/N website at www.onboces.org



COURSE GUIDE
2024 - 2025