SWEET HOME SENIOR HIGH SCHOOL

STUDENT CURRICULUM HANDBOOK

2023-2024

HIGH SCHOOL BUILDING ADMINISTRATION

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HIGH SCHOOL COUNSELORS 2023-2024

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****Student Curriculum Handbook contents, requirements, offerings, and prerequisites are subject to interpretation by the building Principal on a year by year basis.**

STUDENT SERVICES OFFICE

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Office Hours: 7:00-2:45

MISSION STATEMENT

The mission of Sweet Home High School, in alignment with that of the Sweet Home School District, is to ensure that every graduate is ready for the future; is ready to contribute to their community; and is ready to integrate developmentally, personally, and emotionally, into today's global society.

INTRODUCTION

Sweet Home Senior High School is a four-year public school chartered by the New York State Board of Regents and authorized, by the same, to grant New York State Regents and CDOS graduation credentials.

Course offerings for the 2023-2024 school year have been reviewed by teachers, counselors and administrators. Our curriculum is aligned to match the requirements now mandated by New York State, and the courses are designed to meet the needs of all students.

At Sweet Home High School, it is the belief that a college education is the gateway to lifelong opportunities. A college education leads to high-level skills and a higher paying job. At a time in which fewer students are graduating from high school ready for college, there is an increasing societal urgency towards preparing all students to be college, career and life ready.

- Elementary, middle and high school prepares students to be ready prepared for college, career and life.
- College has a new definition- it can be 1, 2, or 4 years after high school. That means 1-year for a certificate program; 2-year associate's degree; or 4-year bachelor's degree.
- All students can go to college to prepare for a career that can lead to successful life experiences and opportunities.

This handbook has been prepared to provide you with general information about courses, programs, graduation requirements and resources at Sweet Home High School. Please read it carefully and save it as a reference for the coming year.

Consider with care the many courses listed in this guide. Read the course descriptions and prerequisites while keeping in mind your abilities, interests and aspirations. Your school counselor will help you select the most appropriate program of studies for next year. Your counselor will also help you develop goals and a career plan to assist you in reaching the new educational standards outlined in this handbook. The counselors, teachers, and administrators are committed to helping all students achieve success and become productive citizens of the 21st century.

GUIDELINES FOR PLANNING A PROGRAM OF STUDY

The school counselor plays a key role in helping each student plan the appropriate program of study. Assisting students with the proper selection of courses to help them realize their goals and ambitions is one of the most important tasks of the counselor, but not the only one. Our School Counseling program promotes students' success through a focus on academic achievement, prevention and intervention activities, advocacy and social/emotional and career development.

After receiving an orientation to the program planning procedure, each student will meet with his/her counselor individually to discuss his/her progress, goals, and post-high school plans. The counselor will help the student plan next year's program of studies to assure that (a) graduation requirements are met, (b) vocational and career training requirements are met, (c) college entrance requirements are met, and (d) students acquire appropriate life skills for the future. The counselor coordinates the student's ideas and objectives with those of parents and teachers. Teacher recommendations for the next course are very much a part of the decision-making process, as are the prerequisites listed in the course descriptions found in this guide. Parents/guardians are encouraged to call or meet with the counselor if they have any questions.

GRADUATION REQUIREMENTS

*Students **must** meet both course requirements and Regents testing requirements for graduation.*

COURSE REQUIREMENTS

Regents Diploma (required courses)		Advanced Designation Regents Diploma (required courses)	
English	**4 credits**	**English**	**4 credits**
Social Studies	**4 credits**	**Social Studies**	**4 credits**
Mathematics	**3 credits**	**Mathematics**	**3 credits**
Science	**3 credits**	**Science**	**3 credits**
Second Language	**1 credit (B)**	**Second Language**	**3 credits (A)**
Art/Music/DDP	**1 credit**	**Art/Music/DDP**	**1 credit**
Health	**1/2 credit**	**Health**	**1/2 credit**
Physical Education	**2 credits**	**Physical Education**	**2 credits**
Electives	**3.5 credits**	**Electives**	**1.5 credits**
TOTAL CREDITS	**22 credits**	**TOTAL CREDITS**	**22 credits**

REGENTS TESTING REQUIREMENTS 4 + 1

Regents Diploma - Assessment: 4 required Regents exams with a score of 65 or better as follows: 1 math, 1 science, 1 social studies, ELA and 1 Pathway Assessment (Can be Regents Exam (ex: Global, Earth, Chem), CDOS, CTE exam, AP exam score (3 or higher), or LOTE exam.

Regents with Advanced Designation - Assessment: Students may meet the assessment requirements in order to earn a Regents Diploma with Advanced Designation by passing any one of the following combinations of Regents examinations and/or Department approved alternatives if applicable: a. Traditional Combination: ELA,
Global History and Geography, US History and Government, 3 mathematics, 2 science, 1 must be life science and 1 must be physical science) = 8 Assessments**
b. Pathway Combination (other than STEM): ELA, 1 social studies, 3 mathematics, 2 science (1 must be life science and 1 must be physical science), 1 Pathway (other than science or mathematics) = 8 Assessments **
c. STEM (Mathematics) Pathway Combination: ELA, 1 social studies 4 mathematics, 2 science (1 must be life science and 1 must be physical science) = 8 Assessments ** d. STEM (Science) Pathway Combination: ELA, 1 social studies, 3 mathematics, 3 science (1 must be life science and 1 must be physical science) = 8 Assessments ** (**In addition a student must pass either a locally developed Checkpoint B examination or complete a 5 unit sequence in the Arts or CTE.)

Special Endorsements: Honors: A student earns a computed average of at least 90 on the Regents examinations applicable to either a Regents diploma or a Regents diploma with advanced designation. No more than 2 Department approved alternatives can be substituted for Regents examinations and the locally developed Checkpoint B LOTE examination is not included in the calculation. Mastery in Math and/or Science: A student meets all the requirements for a Regents Diploma with Advanced Designation AND earns a score of 85 or better on 3 math Regents examinations and/or 3 science Regents examinations. Technical Endorsement: A student meets the requirements for either a local diploma, a Regents diploma or a Regents diploma with advanced designation AND successfully completes a Department approved CTE program including the 3-part technical assessment.

Local (safety net for students with disabilities) - (a)Low Pass Safety Net Option: 5 required Regents exams with a score of 55 or better as follows: 1 math, 1 science, 1 social studies, ELA and 1 Pathway Assessment, OR (b) Compensatory Safety Net Option: scores between 45-54 on one or more of the five required Regents exams, other than the English language arts (ELA) or mathematics, but compensates the low score with a score of 65 or higher on another required Regents exam. Note: a score of at least 55 must be earned on both the ELA and 1 mathematics exam. A score of 65 or higher on a single examination may not be used to compensate for more than one examination for which a score of 45-54 is earned.

IMPORTANT REMINDER TO ALL STUDENTS:

High School graduation requirements do not equal college admission requirements**! Please make certain to look at college entrance requirements for the school of your choice.**

THE FOUR (4) STEP COURSE SELECTION PROCESS

STEP ONE – Study Requirements Read through the Student Planning Guide to determine course selection for the 2023-2024 school year. Pay particular attention to prerequisites you are interested in.

STEP TWO – Orientation Student Services will go into all 9-11th grade classes to discuss courses. Students will then have an opportunity to request courses on the Student Portal.

STEP THREE – Annual Review Beginning in February students are asked to make an appointment with their School Counselor to discuss course selections, career exploration and post-secondary planning.

STEP FOUR – Parent Approval Upon completion of a student's Annual Review, parents will be able to see course requests on the Parent Portal. Requests will also be mailed to parents. Students and Parents may email any changes by the first week in April.

STUDENT COURSE LOADS

Students are encouraged to take advantage of the programs offered by Sweet Home High School. Students are required to take as a minimum, a schedule of classes equivalent to **SIX (6) CREDITS PLUS PHYSICAL EDUCATION (each semester) for freshmen, sophomores, and juniors; FIVE (5) CREDITS PLUS PHYSICAL EDUCATION (each semester) for seniors.**

SCHEDULE CHANGE POLICY

Designing your schedule is a serious decision. The High School budget is prepared, staff is hired, and the master schedule is developed based on student courses submitted and parent approval.

Therefore, after the First *week of MAY* schedule changes will only be changed for the following reason:

- **An error or omission**
- **Course credits required for graduation (June failure or summer school outcome)**

Unacceptable reasons for a schedule change:

- **To obtain an early dismissal or late arrival**
- **Teacher change**
- **To change lunch time**
- **To take less than minimum course load**

A meeting must be scheduled with the school counselor to discuss any change. For any schedule change, a DROP COURSE REQUEST FORM must be obtained from the school counselor. **Please be advised that students will not be able to make any level changes (AP, Honors, or NU) or course drops after the first 10 weeks of the school year (Typically 1st week in November).**

CAREER PLANNING AND DEVELOPMENT

Career Planning and Development serves as one of the main elements of the educational/school counseling program. The school counselor provides valuable assistance to students as they plan their post-secondary pathway. Our goal is to increase students' awareness of the career and educational planning process. Counselors collaborate with teachers to help students achieve the standards outlined by the New York State Board of Regents on Career Development and Occupational Studies. The standards state that students will:

1. Acquire the skills to investigate the world of work in relation to knowledge of self and to make informed career decisions.
2. Employ strategies to achieve future career success and satisfaction.
3. Understand the relationship between personal qualities, education and training, and the world of work.

By increasing self-knowledge and knowledge of the world of work, students can make better career decisions and understand the importance of life-long learning.

Basic principles of career planning, such as decision-making, self-evaluation, and goal setting have been integrated into the school counseling program. Counselors help students discover their interests, aptitudes, values and attitudes. During each year of high school, students are exposed to a variety of experiences and resources that are designed to promote exploration and research into broad career areas of interest.

The High School Student Services serves as a valuable resource for students. Resources include college publications, career guides, vocational guides and financial aid guides. Whether a student intends to go to college, enter the military, or take an apprenticeship or on-the-job training, information on the educational and training options for a variety of possible careers is available.

Assistance with the college search process is provided in a sequential manner through individual and classroom group sessions. Every effort is made to make it a positive, educational experience for students and their families. Counselors offer a series of college programs that assist students and parents from the beginning task of making a self-assessment through to deciding where to apply, and finally completing the application process. Important scholarship information is coordinated through the Student Service's Office as well.

When colleges make admission decisions they usually evaluate academic achievement, standardized test scores, and a personal profile. Academic achievement is generally the most important. It includes the quality of courses taken, grades, and rank in class. The personal profile measures what the student does outside the classroom. A standardized test is designed to measure a student's ability to do college level work and potential for academic success. These tests are:

PSAT/NMSQT – The primary focus of this assessment is to give students experience with the types of questions they will encounter on the SAT Reasoning Test. This test also gives students the opportunity to qualify for the National Merit Scholarship Program.

SAT Reasoning Test – The SAT Reasoning Test is a three-hour test that measures reading/writing and math abilities. It is usually taken in the spring of the junior year and/or fall of the senior year.

ACT – The American College Test is a college entrance test that is different in style from the SAT. It may be substituted for the SAT at some schools and is required by certain colleges/universities. The ACT contains four curriculum-based tests that measure academic achievement in the areas of English, Mathematics, Reading, and Science reasoning. Students may also take a writing test, aside from the traditional ACT. It is recommended that students take both the ACT and SAT at least once.

ASVAB – The ASVAB student testing program is an opportunity available to all students free of charge. While originally developed for the military, the Armed Services Vocational Aptitude Battery is used in over 15,000 American high schools to test more than one million students per year. We use it as a tool for exploring career interests and also to help students decide on a college major.

COURSE LEVELS

Your school counselor will help you and your parents decide which courses you should take and at which level. ****Any student requesting 3 or more College level classes (AP/NU/ECC) must have an *overall 93 gpa* in prior years.**

Advanced Placement (AP)- See individual classes regarding any prerequisites and/or teacher recommendations in the specific course descriptions.

College Course *(Niagara University (NU) and ECC)*- Sweet Home High School offers a variety of College courses. These courses are taught by Sweet Home faculty hired by the college as adjunct faculty. The college course follows the same curriculum, employs the same course syllabus, and grading procedures. Students can earn college credit directly from the college, usually three and in some instances four credits per semester/ year depending on the course. Students must pay a fee to take a college course. Typically, the cost is 10% of the actual tuition (about $75 per credit hour). In addition, there is a one-time $25 registration fee.

Honors (H)- Enriched courses available for able and interested students. See information regarding prerequisites/recommendations in the specific course descriptions.

Regents (R)- Course offered to prepare students for New York State required exams and the New York State Regents Diploma.

GRADING POLICY

Students are numerically graded four times during the school year. All courses are designated as Regents level, Honors level, AP/NU level in the Student Curriculum Guide.

All courses are distinguished by weighted factors as follows:

- Regents / Middle level 1.00
- Honors level 1.03
- AP/NU level 1.05

Honor roll will be based on quarterly weighted averages: **High Honors: 93-100 • Honors: 90-92.99 • Merit Roll: 85-89.99**

Class Rank is computed at the end of the Junior year and is determined by grades for the total number of credits earned, multiplied by the course weighting and divided by the total number of credits attempted.

EARLY DISMISSAL POLICY

Students should take full advantage of the courses and programs offered during their four years at the High School. They are encouraged to concentrate on academic pursuits and minimize outside interests. We recognize, however, the need for some students to pursue employment goals. Students wishing to have early dismissal must complete and return an application to the Assistant Principal's office by April 7, 2023. Failure to turn in this form by the deadline may result in the early dismissal not being approved. Approval of the application is not a guarantee of scheduling placement.
Please note: Early Dismissal may be revoked for academic and/or disciplinary reasons.

ACADEMIC SUPPORT SERVICES

ACADEMIC SUPPORT CENTER

The Academic Support Center is a service available to the students of Sweet Home High School. The purpose of the Center is to provide support for students who are experiencing difficulty in their coursework. In addition, the services are provided for those who are doing well and want to sharpen particular skills.

ACADEMIC INTERVENTION SERVICES (AIS)

Sweet Home Central School District has a commitment to provide a comprehensive education program and the support required to enable all students meet the New York State learning standards. In keeping with this commitment, the District provides a variety of integrated services. Academic Intervention Services (AIS) are provided to assist all students in the successful completion of course and graduation requirements. This service is available to assist students in meeting the standards on the regents' exams in Algebra, Living Environment, Global, US History, and ELA.

NCAA CLEARINGHOUSE

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 Clearinghouse. For more detailed information, students should speak with his/her counselor.

LIBRARY

The High School Library Media Center is open to students from 7:00am to 2:45pm Monday through Friday. Information on current events, social issues, college and career planning, as well as materials for pleasure reading are available in both print and digital formats. Students are required to have a pass from a teacher and sign in to the library by the time the bell rings. The library maintains an academic environment.

Every student is enrolled in "Virtual Library" through Schoology, which provides them access to all high school research databases, the Online Public Access Catalog, copyright and bibliographic help, graphic organizers and digital citizenship information. Students have access to this information 24/7.

Ipad technical support is provided from 7:30 - 9:00 each morning by the technology department, with additional support by the librarian available during the school day.

All library materials circulate at least overnight. We are a member of the New York State School Library System, a network that allows us to obtain materials and resources from all over the state. For more information, contact Mrs. Heidi Mussachio, Library Media Specialist, at 250-1227.

CONSULTANT TEACHER SERVICES PROGRAM

The Consultant Teacher Services Program provides assistance for students in grades 9 through 12. Special Education teachers service students who have been identified by the Committee on Special Education (CSE) as being in need of specialized support. This support can take the form of either assistance provided directly in their academic classes, in Study Skills Lab, or in both. The goal is for each student to successfully complete both academic coursework and required Regents Examinations, resulting in graduation with a Regents Diploma. Many students receive academic support by being scheduled into a grade-level Study Skills Lab. Study skills and test-taking skills are also emphasized in this class. Each student's academic progress is reviewed yearly and services are revised as needed by the CSE.

If anyone suspects a child attending the High School has an educational disability, he or she should contact the building principal or the Director of Special Education at 250-1235.

2023-2024 COURSE OFFERINGS

ART

STUDIO IN ART
Number of Weeks: 40 weeks / Credit: 1.0 / *Grades: 9, 10, 11, 12*

This is an introductory course required for all students who are pursuing a sequence in Art and for all those who intend to take other courses within the Art curriculum. This course is designed to develop an understanding of the elements and principles of art and design and their application to two and three-dimensional work. Students will develop skills in drawing, painting, composition, design and color. They will be exposed to many techniques and materials. Art appreciation and culture are integral parts of the course. Students will use critical thinking and learn techniques for self-assessment. **Studio in Art meets the state graduation requirement for one year of art, music or technology.**

INTRODUCTION TO DRAWING AND PAINTING
Number of Weeks: 40 Weeks / Credit: 1.0 */ Grades: 10, 11, 12*

Prerequisite: Studio in Art

This course is required for all students who are pursuing a sequence in Art. It is designed to further develop basic concepts taught in Studio in Art. Students have an opportunity to work with many different drawing and painting materials and to develop skills in the use of pencil, charcoal, pen and ink, watercolor and tempera. Subject matter will include still life, the human figure, landscape, abstract design, etc. Development of drawing skills, techniques in various media and use of color are stressed. Art history and appreciation are integrated throughout the year. Evaluation is based on a review of the students completed assignments and a final project.

PHOTOGRAPHY
Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

This course is designed for students particularly interested in photography. Students will participate in studio (classroom) and field (outside) work consisting of two and three-dimensional projects in the photography medium. Strong emphasis on the elements and principles of art as well as a more creative, perceptive eye through special assignments. Students will acquire advanced knowledge of digital photography and work with the program Adobe Photoshop to create works of art.
Digital cameras, computers and printers are available for student use. Students are encouraged to use their own personal digital camera with manual functions. **This course WILL NOT satisfy a portion of the New York State requirement for art/music credit.**

GRAPHIC DESIGN
Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

This course has been developed as an introduction to advertising and commercial art. It is designed to stimulate creativity in the solving of the specific problems related to advertising and to develop an awareness of the elements used in commercial art, such as lettering, illustration design and color. Students are taught the tools and techniques involved in preparing artwork for graphic production, including current digital technologies that are used in the graphic design field. Posters, magazine layout, creative lettering, book covers, three-dimensional displays and package design are some of the projects that may be included in the course. Evaluation is based on the review of completed assignments and a final project.

3-D MIXED MEDIA
Number of Weeks: 40 Weeks /Credit: 1.0 *Grades: 10, 11, 12*

Prerequisite: Studio in Art

This is a course that emphasizes the creation of art using three-dimensional materials and often times, non-traditional materials as well. Students will focus on creating sculptural artworks with clay (both wheel thrown and hand built), found objects, collage materials and even a bit of electricity. The projects that students will create will sometimes be based on observation, abstraction of forms in nature, and even on conceptual ideas. Students are also required to participate in critiques and reflective writing. Art history will be covered in reference to projects given.

ADVANCED PAINTING

Number of Weeks: 40 Weeks / Credit: 1.0 ***/ Grades: 10, 11, 12***

Prerequisite: Studio in Art / Introduction to Drawing and Painting

Building on the skills developed in Introduction to Drawing and Painting, this course involves the study of acrylic painting. Exploration of traditional and abstract approaches to painting will be explored through project assignments. Another course goal is to help students to be self-critical and develop a philosophy that will stimulate artistic growth and professionalism. This course is designed to explore and develop painting as a fine art with an extensive training in color theory. Traditional and experimental styles will be employed. Subjects and styles will vary, as well as discussions and appreciation of historical and contemporary styles, periods and artists. Critiques and critical thinking will be incorporated into the course. Evaluation is based on a review of the student's in class participation, projects and finished work.

ADVANCED DRAWING

Number of Weeks: 40 Weeks / Credit: 1.0 ***/ Grades: 10, 11, 12***

Prerequisite: Studio in Art / Introduction to Drawing and Painting

Building on the skills developed in Introduction to Drawing and Painting, this course involves an in depth advanced study of various drawing media. Extensive exploration of traditional and abstract approaches to drawing will be explored through project assignments. The course goal is to help students to be self-critical and develop a philosophy that will stimulate artistic growth and professionalism. This course is designed to explore and develop drawing as a fine art. Many advanced drawing techniques will be employed. Traditional and experimental techniques will be studied. Subjects and styles will vary, as well as discussions and appreciation of historical and contemporary styles, periods and artists. Critiques and critical thinking will be incorporated into the course. Evaluation is based on class participation, and critiques of finished work.

ADVANCED WATERCOLOR

Number of Weeks: 40 Weeks / Credit: 1.0 ***/ Grades: 10, 11, 12***

Prerequisite: Studio in Art / Introduction to Drawing and Painting

Students will explore water-based media through a variety of artistic techniques focusing on the study of the Principles of Design and Color Theory. Both traditional and experimental approaches are taught. The subject matter will span nature, still life, abstraction, architecture and figure drawing/fashion design. The goal of the course is to better understand the many approaches to drawing and design and the many mediums involved in water-based painting. Individual and group critiques, and instructor demonstrations will be an important part of the learning process. Evaluation will be on class participation and presentation and critiques of finished works.

AP ART & DESIGN

Number of Weeks: 40 Weeks /Credit: 1.0/ Grade 12

Prerequisite: Studio in Art, Introduction to Drawing and Painting, Advanced Drawing plus teacher's recommendation. Students must have had a 90 in prerequisite class to be eligible to take.

This is the advanced course that enables students to perform college level work in a high school art program. It is designed for highly motivated students committed to serious study in Art, while creating a comprehensive art portfolio. Students will be exploring their own ideas and media use throughout this course, and will be able to demonstrate sophistication in art-making as well as idea development in their final portfolios. Students enrolled in AP Studio Art have an option to concentrate on either Two-dimensional work (drawing, painting, photography) or on Three-Dimensional work. They will submit their work digitally to the AP College Board in May. Participating colleges grant credit and appropriate placement for students who have done well on their portfolio submissions. **An AP examination is required for this course. The $96 exam fee is subject to change.**

BUSINESS

CAREER/FINANCIAL MANAGEMENT

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Career and Financial Management is a required introductory business course. It is designed to promote financial literacy among young adults. Students will gain an understanding of and develop the skills needed to be successful in a rapidly changing world. They will explore emerging workplace trends and develop employment skills, including resume writing and interviewing. Additional topics include maintaining a checkbook, understanding credit, insurance, investing, and consumerism. In addition, **This course is a required part of every career and technical education (CTE) program including five unit CTE programs used as a substitution for the additional two units of foreign language needed for a NYS Regents Diploma with Advanced Designation.**

INTRODUCTION TO BUSINESS/ENTREPRENEURSHIP

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

Introduction to Business provides an excellent foundation for students who want to gain further understanding of the fundamental principles associated with owning and operating a start-up business. Students will grow in their understanding of financial and accounting terms and procedures to gain confidence and improve their communication skills. In addition, students will explore the basics of running a business in accordance with legal requirements. **Students may choose to take class for college credit. The cost of this course for college credit will be approximately $294 and will be awarded by SUNY Erie College.**

TECH APPS FOR ENTREPRENEURS

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

This course places emphasis on the use of computer applications: Word processing, spreadsheets, databases, desktop publishing, and multimedia presentations. Assignments and projects will be completed using commercially available computer software such as Microsoft Office. Students will become proficient in the use of the computer and the preparation and proper formatting of various documents such as letters, envelopes, and resumes in Microsoft Word. In Microsoft Excel, we will be learning cells, formulas, functions and charts. Image editing (utilizing and manipulating graphics) will be used with Microsoft Publisher templates and in Microsoft Word. Entering, sorting, and retrieving information will be utilized in Microsoft Access. Student hands-on multimedia presentation strategies and techniques will be performed using Microsoft PowerPoint. Students will be using proper keyboarding skills to enter and manipulate text, graphics, and data. They will also develop skills in file management (creating new folders, saving, deleting, etc.), and Internet research strategies.

ACCOUNTING / ECC ACCOUNTING

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

Prerequisite: Students must have an overall 85 average to be eligible to take.

A one-unit course designed to develop competence in the application of accounting theory. Students will process transactions through the entire accounting cycle in a service and merchandising business. They will also be introduced to automated accounting and be required to use a computer to process accounts receivable, payroll and transactions specific to a service business. **Students may choose to take class for college credit. The cost of this course for college credit will be approximately $294 and will be awarded by SUNY Erie College.**

MARKETING/SOCIAL MEDIA MARKETING

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

Principles of marketing will introduce students to the world of business and business management. Students will learn the marketing process, which includes consumer behavior, research, product development and promotional campaigns. Students will also be introduced to the skills needed to succeed in the growing field of E-Commerce. This exciting new field combines web design, graphic arts and marketing. Other skills covered include management, leadership, customer service, selling, communication, and motivation. Students will apply these concepts in the areas of international business, hospitality/tourism and sports marketing.

NU BUSINESS LAW/BUSINESS LAW

Number of Weeks: 40 Weeks /Credit: 1.0 / *Grades: 11, 12*

Prerequisite: Students must have an overall 85 average to be eligible to take NU Business.

Business Law is one of the most valuable classes you will take in high school. You will study true situations that show how business and personal law impacts not only business, but the daily lives of young people and adults as well. Topics covered will include contracts, legal considerations in marriage and divorce, renting, sales contracts, employment discrimination, bankruptcy, and personal injury laws. The understanding of legal principles learned in this course will be useful throughout your life. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

VIRTUAL ENTERPRISE

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

Virtual Enterprise is a simulated business that is set up and run by students to prepare them for working in a real business environment. With the guidance of a teacher ("coordinator") and real-world business partners the Virtual Enterprise students determine the nature of their business, its products and services, its management and structure, and then engage in the daily operations of running the business. Emphasis is placed on using current business software, electronic communications, and the Internet for business transactions. The Virtual Enterprise simulation takes the teacher outside of the traditional instructional paradigm and remarkably places the students in the fast-paced environment of modern business.

ENGLISH

ENGLISH 9R

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9***

This course uses a workshop approach to develop literacy skills. Extensive study of narrative and argumentative writing skills, literary analysis, independent reading as well as a variety of literary genres are incorporated. The emphasis is on creating critical readers of both fiction and non-fiction, and experience writing in a variety of modes. ****NCAA Approved**

ENGLISH 9 HONORS

Number of Weeks: 40 Weeks / Credit: 1.0 ***/ Grade: 9***

Prerequisite: Enrolled in Global I Honors and minimum of a 90 overall average in English 8 for Q1-3.

English class is about more than developing reading, writing, speaking, and listening skills. We are human—and humans, by nature, are thinkers. In this class, your main job is to think. ENG 9H is themed around a central question: What is the most important thing teenagers must learn on their road to adulthood? Every book we read this year provides insight into the teenage experience. The culmination of this class, your final exam, will be an in-depth, individual analysis of this question. Throughout the year, our units will feature fiction, nonfiction, as well as poetry. Some readings will be assigned; some you will choose. Today and every day you will read, write, question, discuss, listen, and think deeply.****NCAA Approved**

Honors Criteria*: A formula of assessment scores with a student's GPA will be used along with a teacher recommendation to determine eligibility.*

ENGLISH 10R

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10***

This course will further develop and refine the skills presented in English 9. It will also focus on the reading and analysis of World Literature. Vocabulary study and grammar will be included. Writing skills will be emphasized. A final examination or an extensive research project will be given. ****NCAA Approved**

ENGLISH 10 HONORS

Number of Weeks: 40 Weeks / Credit: 1.0 / ***/ Grade: 10***

Prerequisites: Completion of 9th grade Global H and English H and enrolled in AP World.

The objective of this course is to further expand the skills developed in English 9 Honors. The course provides for in-depth readings and discussions of World Literature. Critical writing skills will be stressed with special attention to correctness, clarity and analytical thought. A final exam or project will be given. ****NCAA Approved**

ENGLISH 11R

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 11***

This course may use a historical approach in surveying major American writers. Development of vocabulary, compositional, listening, and speaking skills is closely tied to the literature that is read. Spelling, grammar and usage skills are developed through the writing and revision of compositions. A final project or exam will be given. The English Language Arts Regents exam is given and students must pass to be eligible to graduate. ****NCAA Approved**

AP ENGLISH 11 LITERATURE

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 11***

Prerequisites: Successful completion of English 10 Honors. Students must have had a 85 in prerequisite class to be eligible to take. Teacher recommendation if in English 10 and 85 or higher gpa.

This course stresses analytical reading in English and American Literature, in-depth discussions and critical writing. Students will write in many different modes, including expository and persuasive prose; narrative and dramatic writing; timed analytic essays; as well as papers comparing and contrasting themes in related literary works. The English Language Arts Regents exam is given and students must pass to be eligible to graduate.. **An AP examination is required for this course. The $96 exam fee is subject to change. **NCAA Approved**

ENGLISH 12
Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 12***
This course is designed to further develop critical reading and writing skills. The course will focus on reading strategies for types of texts a student will encounter throughout their lives. Students will also be engaged in all aspects of the writing process to strengthen their skills and produce persuasive, critical and analytical essays. Students will be evaluated through discussions, annotations, writing and projects. ****NCAA Approved**

SUNY ERIE COLLEGE WRITING (Satisfies ENGLISH 12 requirement)
Number of Weeks: 40 Weeks / Credit: 1.0/ ***Grade: 12***
Prerequisite: Students must have had an 85 average in English 11 to take.
Students will earn three college credits from ECC with the successful completion of this course. A course designed to provide writing skills appropriate for all college programs. The course will emphasize the use of rhetorical strategies and research in development of ideas, career-appropriate writing, writing about literature, and the ability to analyze and utilize diverse cultural perspectives. Overall, Writing and Thinking aims to develop the skills students will need to write successfully while in college.

This is a 3 credit college-level course that will transfer as EN 100 to colleges and universities in order to fulfill English or elective requirements. Students may choose to take class for college credit. The cost of this course for college credit will be approximately $294 and will be awarded by SUNY Erie College.

ENGLISH ELECTIVES

MASS MEDIA ANALYSIS / NU MASS MEDIA ANALYSIS
Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***
Prerequisite: ***Students must have an overall 85% average gpa to take NU Mass Media.***
The objectives of this course are to create awareness and appreciation of various forms of media and to illustrate the effects of these media on our society. Comparisons of media forms, news coverage, advertising, and the trends in entertainment are critically examined. As an alternative to literature courses, comparative media analysis stresses the development of critical interpretation and writing skills. A final project will be given. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

CREATIVE WRITING
Number of Weeks: 20 Weeks / Credit: .50 / ***Grades: 10, 11, 12***
This course is designed for students to develop creative talents through writing. Time is spent on writing various forms of literature, such as narratives, short stories, drama and poetry. A final project is given as the final exam. ****NCAA Approved**

PUBLIC SPEAKING
Number of Weeks: 20 Weeks / Credit: .50 / ***Grades: 10, 11, 12***
To be able to speak coherently and persuasively is a skill required in college classrooms and all kinds of life and career situations. Aims of the course include vocal improvement, development of good diction and attainment of poise. Different kinds of speeches including personal, informative and persuasive will be taught. A final paper and speech will be required. ****NCAA Approved**

PHYSICAL EDUCATION & HEALTH

HEALTH
Number of Weeks: 40 Weeks / Credit: .50 / ***Grades: 10, 11, 12***
This course is designed to present students with concepts and attitudes that promote a healthy lifestyle. Students will examine their current lifestyle choices, select goals, and make plans to achieve and maintain optimum health. They will discuss and actively participate in numerous activities and topics that directly affect their well-being such as good nutrition, proper weight control, exercise, stress management, and other controlling risk factors such as smoking, alcohol, and drug use. They will also learn about mental health conditions and issues related to dating, internet safety, and sexually transmitted diseases.

PHYSICAL EDUCATION 9/10

Number of Weeks: 40 Weeks/ Credit: .50 / ***Grades: 9 & 10***

Ninth and Tenth graders will be required to be involved in a Freshman/Sophomore Physical Education program that is designed to expose the participants to a wide variety of cooperative activities, team building activities, team and individual sports, and fitness concepts. The activity-based classes promote an appreciation of a multitude of activities that lead to lifelong health and fitness. The students will also complete written portfolios highlighting critical aspects of physical fitness.

PHYSICAL EDUCATION LIFETIME

Number of Weeks: 40 Weeks / Credit: .50 / **Grades:** ***11, 12***

Students in the Lifetime Course will be involved with individual sports and "lifetime activities." Students will gain exposure to several activities/ sports that can be enjoyed throughout life, promoting a healthy lifestyle. Students will also complete the Fitness gram Module, which serves as a foundation for Personal Fitness Planning.

ACTIVITIES: Golf. Badminton, Archery, Rock Climbing, Table Tennis, Fitness, Yoga, Softball, Tennis

PHYSICAL EDUCATION TEAM

Number of Weeks: 40 Weeks / Credit: .50 / ***Grades:11, 12***

Students in the Team Course will be involved in sports and activities that stress teamwork, offensive and defensive strategy and skill level improvement. Students will learn appropriate competitive behaviors while actively participating in a variety of Team Sports. Students will also complete the Fitness gram Module, which serves as a foundation for Personal Fitness Planning.

ACTIVITIES: Football, Volleyball, Basketball, Floor Hockey, Doubles Badminton, Team Handball, Soccer, Ultimate Frisbee, and Softball

***NOTE: PE/Gym grades are used in the calculation of student cumulative GPA's**

WORLD LANGUAGE

FRENCH 2

Number of Weeks: 40 Weeks/ Credit: 1.0/ ***Grades: 9, 10, 11, 12***

Prerequisite: French 1

Students will continue with grammatical structures as well as an introduction to past tense verb formation. Vocabulary, conversational skills, and reading comprehension are also emphasized. French culture is taught with an emphasis on customs in daily life. ****NCAA Approved**

FRENCH 3

Number of Weeks: 40 Weeks/ Credit: 1.0/ ***Grades: 10, 11, 12***

Prerequisite: French 2

Previously taught structures and topics are included with emphasis on accuracy. New verb structures include future, conditional, present and past form. This course relies on reading comprehension, speaking skills and composition writing. National French Honor Society Induction candidates are selected at this level. ****NCAA Approved**

NU FRENCH 4

Number of Weeks: 40 Weeks / Credit: 1.0/ ***Grades: 11, 12***

Prerequisite: Students must have an 85% or higher in French 3.

The objective in NU French 4 is to develop extensive French vocabulary and conversational skills. There is great emphasis on studying the cultures of the French-speaking world through exploration of literature and linguistic studies. Students are engaged through projects and presentations in various cultural units. This course is recommended for those students who are interested in building upon their skills acquired in the first three years of French study. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

****NCAA Approved**

NU FRENCH 5

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Students must have an 85% or higher in NU French 4.

Emphasis in NU French 5 will be placed on the development of composition and conversation. Various readings, films and recordings will introduce new vocabulary, grammar and cultural information. Students will undertake an in-depth look at French culture and history, increasing vocabulary and grammar use. Thematic units include: France and Quebec and/or Caribbean and African Studies. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285. **NCAA Approved**

GERMAN 2

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

Prerequisite: German 1

Students will learn the formation of verbs in the past and imperfect tenses. Additional topics include reflexive and irregular verbs. Vocabulary, conversational skills, and reading comprehension are also emphasized. German culture is taught with an emphasis on customs in daily life. ****NCAA Approved**

GERMAN 3

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

Prerequisite: German 2

Previously taught structures and topics are included with emphasis on accuracy. This course relies on reading comprehension, speaking skills in dialogue format and composition writing. ****NCAA Approved**

GERMAN 4

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Successful completion of German 3

This course is designed for the student with special interest in the German language. Extensive time is given to individual interest with emphasis on conversation and reading. ****NCAA Approved**

GERMAN 5

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 12***

Prerequisite: Successful completion of German 4

Level 5 is the course for those who wish to continue on in German but do not want to take the AP level course. This course stresses conversation and discussion of themes such as current events and trends, as well as cultural aspects of Germany. There is also an introduction into all German literary periods. Many German online sites and podcasts are used in instruction at this level.

ADVANCED PLACEMENT GERMAN

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 12***

Prerequisite: German 4, Student must have had a 90 in prerequisite class to be eligible to take.

This emphasis on this course will be placed on conversation, composition, comprehension, and German grammar structures in preparation for the AP examination in German. Readings will include selections from literature, newspaper, and magazine at an advanced high-school level. Appropriate college credit will be granted according to the score earned on the German Language AP examination. **An AP examination is required for this course. The $96 exam fee is subject to change. **NCAA Approved**

SPANISH 1

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Students will be introduced to Spanish language and culture. Emphasis will be placed on Spanish pronunciation, simple sentence structure, use of present tense and one past tense. At the end of the course, students should be able to use simple sentences to converse using words about school, family, food, sports, weather and a wide variety of other topics. ****NCAA Approved**

SPANISH 2

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Spanish 1

Students will learn the formation of verbs in the preterite, imperfect, future and conditional tenses. Additional topics include reflexive and irregular verbs. Vocabulary, conversational skills, and reading comprehension are also emphasized. Spanish culture is taught with an emphasis on customs in daily life. ****NCAA Approved**

SPANISH 3

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

Prerequisite: Spanish 2

Previously taught structures and topics are included with emphasis on accuracy. New verb structures include future, conditional and imperfect. This course relies on reading comprehension, speaking skills in dialogue format and composition writing. Spanish Honor Society candidates are selected from this level. ****NCAA Approved**

SPANISH CONVERSATION

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Spanish 3

The objectives of this course are to develop extensive Spanish vocabulary and conversational skills. There is an emphasis on studying the cultures of the Spanish-speaking world through exploration of literature, movies and current events. Students are engaged through projects and presentations and discussions in the spanish language class. This course is recommended for those students who are interested in building upon their skills acquired in the first three years of Spanish study.

NU SPANISH 4

Number of Weeks: 40 Weeks /Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Students must have an 85% or higher in Spanish 3

The objective of NU Spanish 4 is to develop extensive Spanish vocabulary and conversational skills. In this first course of the Intermediate 103-104 sequence, students review and expand all communication skills (speaking, listening, reading, and writing) through grammar exercises and materials reflecting the history, literature, and cultures of the Hispanic world). **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

****NCAA Approved**

NU SPANISH 5

Number of Weeks: 40 Weeks /Credit: 1.0 / Grade: 12

Prerequisite: Students must have an 85% or higher in NU Spanish 4.

Emphasis in this course will be placed on development of composition and conversation. College level literature and cultural selections will be stressed. **Students in 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

****NCAA Approved**

MATHEMATICS

To receive a Regents diploma, all students at Sweet Home High School are required to pass the Algebra Regents exam. The exam is given after a student has successfully completed Algebra. For Advanced Regents designation students must complete the Geometry and Algebra 2/Trig exam.
NOTE: A GRAPHING CALCULATOR (TI-84+) IS USED FOR MANY OF THESE MATH COURSES. IF NECESSARY, CLASS SETS WILL BE AVAILABLE FOR USE.

PRE-ALGEBRA

Number of Weeks: 40 Weeks /Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Recommendation of Administration, Middle School Teacher and School Counselor.

Pre-Algebra is designed to give students a strong understanding of number sense and beginning algebra. The topics include: solving all types of linear equations in one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions, coordinate geometry, solving systems of equations, measurement, rates using appropriate units and converting within the given measurement systems, measures of central tendency and visual representation of data, lines of best fit will be used to make predictions, right triangle trigonometry and elementary probability. This course will prepare students for the Integrated Algebra exam in June of their sophomore year. The graphing calculator will be used throughout the year.

ALGEBRA

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

This course encompasses the first year in the high school mathematics curriculum. Strong emphasis is placed on problem solving throughout the course. Topics include the real number system, properties of numbers, exponents, radicals, factoring, operations with polynomials, solving and graphing linear equations, inequalities and quadratic equations, right triangle trigonometry, basic statistics, and basic probability. The state Algebra I exam that is required for graduation will be given in June. ****NCAA Approved**

GEOMETRY

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Satisfactory completion of Algebra

This course encompasses the second year in the mathematics sequence. Further emphasis is given to problem solving throughout the course. Topics include polygon relationships, volume and surface area, transformational geometry, coordinate geometry, quadratics, formal and informal proofs, geometric constructions, Euclidean Geometry, right triangle geometry, locus, geometry of a circle and planar geometry. Quarterly assessments will be given throughout the year and the state Regents Geometry exam will be given in June. ****NCAA Approved**

HONORS GEOMETRY

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10***

Prerequisite: Completion of Algebra I with a minimum of 93 average and meet Honors Criteria (see below)

This course includes the Geometry curriculum with a greater emphasis on deductive and inductive proofs. Additional material includes mathematical systems, paragraph proofs, flow proofs and derivations of formulas. Topics include polygon relationships, volume and surface area, transformational geometry, coordinate geometry, the graphs of linear, quadratic, circle and absolute value equations, formal and informal proofs, geometric constructions, Euclidean geometry, right triangle geometry, locus, geometry of a circle and three-dimensional geometry. The state Geometry exam is given in June. ****NCAA Approved**

Honors Criteria*: A formula of assessment scores with a student's GPA will be used along with a teacher recommendation to determine eligibility.*

ALGEBRA II and PRE-CALCULUS (BLOCK MATH—2 courses)

Number of Weeks: 40 Weeks / Credit: 2.0 / Grades: 11, 12

Prerequisite: Mastery in Algebra (85) and successful in Geometry (80).

This course is two courses, within one school year; which meets for two periods a day. The first semester includes Algebra II. The second semester includes Pre-Calculus. The first course includes continuation in the study of the real number system and the introduction of the complex number system, the study of trigonometric, exponential and logarithmic functions, trigonometric applications, probability, statistics, transformations, series and sequences. The intent of the course is to provide a variety of ways for students to acquire and demonstrate mathematical reasoning ability when solving problems. The Algebra II State Exam will be

administered at the end of the first semester in January. The second course of Pre-Calculus is designed as a college-preparatory course. Topics include algebra of functions, logarithms, and a basic introduction to Calculus that includes limits, continuity, derivatives and integrals. A school exam will be administered in June. **NCAA Approved**

ALGEBRA II & TRIGONOMETRY

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11, 12*

Prerequisite: Satisfactory completion of Geometry This course includes continuation in the study of the real number system and the introduction of the complex number system, the study of trigonometric, exponential and logarithmic functions, trigonometric applications, probability, statistics, transformations, series and sequences. The intent of the course is to provide a variety of ways for students to acquire and demonstrate mathematical reasoning ability when solving problems. The Algebra II and Trigonometry State Regents Exam will be given at the end of the course in June. ****NCAA Approved**

ALGEBRA II AND TRIGONOMETRY HONORS

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 10, 11*

Prerequisite: Satisfactory completion of Geometry Honors course, and meet Honors Criteria (see below)

This extensive course covers all topics of Algebra II and Trigonometry with greater emphasis on theory and proof. Additional material includes applications of logarithms, natural logarithms, sequences and series, matrices and polynomial functions. Problem solving is emphasized. The Algebra II and Trigonometry exam is given at the end of the course along with a school final examination. ****NCAA Approved**

Honors Criteria*: A formula of assessment scores with a student's GPA will be used along with a teacher recommendation to determine eligibility.*

COLLEGE MATH

Number of Weeks: 40 Weeks /Credit: 1.0 / *Grades: 11, 12*

Prerequisite: Satisfactory completion of Geometry

This course is designed to provide a sound foundation for juniors and seniors who are planning to enter a two or four-year college after graduation. Topics include transformations of functions, sequences and series, logarithmic and exponential functions, quadratics, systems of equations and set theory. This course is designed for students to be successful when they take their math course at the college level.

FINANCIAL ALGEBRA

Number of Weeks: 40 Weeks /Credit: 1.0 / *Grades: 11& 12*

Prerequisite: Satisfactory completion of Algebra & Geometry

Financial Algebra is an algebra-based, applications- oriented, technology dependent course that requires Algebra 1 and Geometry as a prerequisite. The course addresses college preparatory mathematics topics from Algebra, Statistics and Probability under seven financial umbrellas: Banking, Investing and Modeling a Business, Employment and Income Taxes, Automobile Ownership, Independent Living, and Retirement Planning and Household Budgeting. Students use a variety of problem solving skills and strategies in real-world contexts. The mathematics topics contained in this course are introduced, developed, and applied in an as-needed format in the financial settings covered. ****NCAA Approved**

PRE-CALCULUS

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grades: 11, 12*

Prerequisite: Satisfactory completion Algebra II/Trig

Pre-Calc is designed as a college-preparatory course. Topics include algebra of functions, polynomial functions, logarithms and a basic introduction to Calculus that includes limits, continuity, derivatives and integrals. A school final exam is given. ****NCAA Approved**

PRE-CALCULUS HONORS

Number of Weeks: 40 Weeks /Credit: 1.0 / *Grades: 11, 12*

Prerequisite: Successful completion of Algebra II Honors and meet Honors Criteria (see below)

The Pre-Calculus Honors course consists of a number of selected topics in advanced mathematics. The first part of the course discusses topics from Discrete Mathematics including sequences, series, induction proofs, complex analysis and matrices.

The second part of the course focuses on college preparation. Topics include algebra of functions, polynomial functions, logarithms and a basic introduction to Calculus that includes limits, continuity, derivatives and integrals. The topics covered will be especially helpful to the potential mathematics or science major and should provide the tools that will be useful in the student's transition from high school to college mathematics. ****NCAA Approved**

Honors Criteria*: A formula of assessment scores with a student's GPA will be used along with a teacher recommendation to determine eligibility.*

NU CALCULUS

Number of Weeks: 40 Weeks /Credit: 1.0 / *Grade: 12*

Prerequisite: Students must have an 85% or higher in Pre-Calculus or Honors Pre-Calculus, Geometry & Algebra II.

This course addresses concepts that are typically covered in a first semester calculus course at the college level. In addition, selected topics from a second semester calculus course will be included. The course is designed to mirror the MAT 111 course given at Niagara University. Successful completion of this course will result in 4 college credits from Niagara University.**Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $380.**

ADVANCED PLACEMENT CALCULUS (AB)

Number of Weeks: 40 Weeks / Credit: 1.0 / *Grade: 12*

Prerequisite: Successful completion of Pre-Calculus Honors. Student must have had a grade of 90% or better in Pre-Calculus Honors to be eligible to enroll in AP Calculus (AB)

AP Calculus (AB) is a rigorous course designed to prepare students for the Advanced Placement Calculus AB exam in May. Colleges may grant credit or advanced standing based on the performance on this exam. The content involves the following differential and integral calculus topics: limits, continuity, derivatives of implicit and explicit algebraic functions, logarithmic and trigonometric functions. Applications of the derivative and integral include curve sketching, area under a curve and volume of solids. All students taking this course will take the Advanced Placement (AB) exam in May.

A graphing calculator is required; the recommended model is the TI-84+.

An AP examination is required for this course. The $96 exam fee is subject to change. **NCAA Approved

STATISTICS

Number of Weeks: 40 Weeks / Credit: 1.0/ *Grades: 11, 12*

Description: In this full year elective course, students will explore and differentiate descriptive and inferential statistics. Topics include the use of graphs such as histograms, stem plots, timeplots, and scatter plots to display data using mean, median, mode and standard deviation to describe data. Students will examine the relationship between measures of central tendency, standard deviation and the normal distribution curve. They will calculate probability of simple and compound events as well as explore permutations and combinations. Bias will also be examined in sampling and surveys. Students will be able to estimate with confidence through linear regression. The course will use sports and games as the primary focus throughout the year.

NU STATISTICS

Number of Weeks: 40 Weeks / Credit: 1.0/ *Grades: 11, 12*

This course is equivalent to MAT 102 given at Niagara University. The course introduces students to major concepts and tools for collecting, presenting, and drawing conclusions from data. It should be noted that at least one statistics course is typically required in college for majors such as engineering, psychology, sociology, health science and business. Successful completion of this course will result in college credits from Niagara University. Just as with NU Calculus course there are costs associated with taking this class. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285. **NCAA Approved**

MUSIC

Many colleges recommend 4 years of a performing ensemble and two years of music theory for admission into music programs. The 5-unit sequence in music offers the student the opportunity for a Regents Diploma with Advanced Designation (under Option II). The 5-unit sequence in music is 3 units of a performing ensemble and 2 units of music theory.

MUSIC PERFORMING ENSEMBLE REQUIREMENTS

• Participation in all scheduled performances is required. Transportation to and from concerts outside of the school day is the responsibility of the student. All school concerts can be found on the school calendar and will also be noted in the handbook for each group.
• Students who choose to participate in a musical ensemble are required to attend small group lessons. The lessons are designed to work on the technical aspects pertaining to instrumental and/ or vocal performance. A rotating lesson schedule is designed by the music faculty to allow student participation in lessons with minimal time lost in the classroom.
• Concert dress is specific to each performing ensemble and is noted in the handbook. Appropriate dress may be available for rental or purchase.
• Students are required to supply their own instrument. Select instruments may be available for rental from the school district. Students may need to provide lesson books or other supplies based on need and teacher direction.

SYMPHONIC BAND

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Audition or recommendation of Instructor

The Symphonic Band is an instrumental group for students who desire to continue performing on their chosen instruments. The study of instrumental and ensemble techniques, interpretation and performance of band literature and orchestral transcriptions are covered in this course of study. Final grade is based on organizational participation, individual and group auditions, instrumental lessons, performances and effort.

WIND ENSEMBLE

Number of Weeks: 40 Weeks /Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Audition or recommendation of Instructor

Wind Ensemble is limited to the more advanced instrumental students. The course is designed to include instrumental and ensemble techniques, interpretation and performance of band literature and/or orchestral transcriptions. Instrumental students are placed in Wind Ensemble by audition, achievement level and instrumental needs. Final grade is based on organizational participation, individual and group auditions, instrumental lessons, performances and effort.

JAZZ ENSEMBLE

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Audition or recommendation of Instructor.

The Jazz Ensemble is for those students desiring the opportunity to explore jazz. The group performs literature from various time periods and styles focusing on the study of improvisation. Instrumental students are selected by audition or recommendation from the various performing groups offered by the Music Department. Final grade is based on performance, preparation and active participation.

SYMPHONY ORCHESTRA

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Audition or recommendation of Instructor

The Symphony Orchestra is designed for the more advanced string player. It is a select ensemble available only through audition, teacher recommendation and instrumental need. This course will advance the technical performance skills of both the individual

player and the ensemble. It will promote and elevate the discipline of musical study and requires the collective responsibility of each of its members to prepare the selected literature. Grades are based on student participation, lessons and performance evaluations.

CONCERT CHORALE

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Audition or recommendation of Instructor

Concert Chorale is a vocal group for the more advanced musician. Music is studied through vocal literature. The curriculum provides a performance experience through a variety of musical styles. The study of vocal techniques and music literacy are integral parts of this course. Students are placed in Concert Chorale by audition and vocal needs. The student's final grade is based on class participation, written assignments, voice labs and performance evaluations.

MUSIC THEORY I

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

This course is designed for students who have a high interest in music. It is essential for those students who wish to pursue a music major at the college level. Topics include the understanding and use of notation, musical terms, pitch recognition, keyboard, periods and styles, form, basic chord progressions, dictation and sight singing. Mid-term and final examinations are given in this course.

AP MUSIC THEORY

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Music Theory I & Recommendation of Instructor. Student must have had a 90 in prerequisite class to be eligible to take.

This course will include advanced harmony, orchestration dictation, form and analysis, conducting, styles, texture, experimental composition and surveys of composition. It is designed for students with exceptional musical ability who wish to pursue a career in the field of music. Mid-term and final examinations are given in this course. **An AP examination is required for this course. The $94 exam fee is subject to change.**

CONCERT ORCHESTRA

Number of Weeks: 40 Weeks /Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Prerequisite: Audition or recommendation of Instructor

The Concert Orchestra is an instrumental ensemble designed for those students who wish to continue the study of string instruments. This orchestra will introduce students to high school level orchestra literature and is designed to advance the student from the entry level to the mastery level of performance. Students will develop their technical skills, musical interpretation along with individual and group discipline and dedication. Performances cover various styles of orchestral literature during several seasonal concerts and competitions. Grades are based on student participation, lessons and performance evaluation.

MIXED CHORUS

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

Mixed Chorus is a vocal group designed for the study of music through vocal literature. The curriculum provides a performance experience through a variety of musical styles. The study of vocal technique and music literacy are integral parts of this course. The student's final grade is based on class participation, written assignments, voice labs and performance evaluations.

Number of Weeks: 40 / Credit: 1 Unit

SCIENCE

NEW YORK STATE POLICY REGARDING LABORATORY COURSES

An effective laboratory experience is a basic component of science instruction. In some cases, teachers will find it appropriate for a laboratory experience to precede classroom discussion, while on other occasions laboratory work can be used as an effective follow-up activity. Laboratory and class work are carefully integrated in **all** science courses. Students will not be allowed to attempt Regents examinations or receive Regents course credit unless all laboratory requirements are satisfactorily completed (at least 1200 minutes or thirty 40 minute sessions). All laboratory science courses will have 1.25 credits for the course and zero credits given for the lab. Labs are recorded as satisfactory (S) or unsatisfactory (U).

LIVING ENVIRONMENT

Number of Weeks: 40 Weeks / Credit: 1.25 / ***Grades: 9, 10, 11, 12***

The curriculum is a continuation of the 8th grade course Living Environment. It is the intent of this course to provide students with an awareness of the natural world, basic scientific concepts, stimulation of inductive reasoning, and a basic understanding of biological processes and generalizations. ****NCAA Approved**

EARTH SCIENCE

Number of Weeks: 40 Weeks /Credit: 1.25 / ***Grades: 9, 10, 11, 12***

Prerequisite: Successful completion of Living Environment course

This course will provide students with an awareness of the world in which they live. The total environment is studied including space, the atmosphere, the surface, and the sub-surface of the Earth. This is done through investigative labs, class discussions and readings. In the course of study, the use of mathematical principles will also be employed to analyze Earth processes. A New York State Regents lab practical and written exam is required for Regents credit. ***NCAA Approved**

INTRODUCTION TO CHEMISTRY

Number of Weeks: 40 Weeks / Credit: 1.00 / ***Grades: 10, 11, 12***

Prerequisite: Successful completion of Living Environment

This course will introduce students to the important theories, skills and thought-processes associated with Chemistry. There will be an emphasis on the application of Chemistry to our daily lives. There will be no lab associated with this course, but students will conduct lab investigations throughout the year to build their procedural knowledge. This course will count as a third year of science and is recommended to all students who may have an interest in a technical career, such as medical or dental technician or automotive mechanic.

CHEMISTRY

Number of Weeks: 40 Weeks / Credit: 1.25 / ***Grades: 10, 11, 12***

Prerequisite: Successful completion of both Living Environment and Earth Science and completion of Algebra II or concurrent enrollment (9th may be considered to take if they receive a minimum of 93 for final average and 93 on NYS Regents exam in Living Environment).

This course will cover the following topics in class with practical applications within lab situations:

- Unit 1: Matter and Energy
- Unit 2: Atomic Structure
- Unit 3: Bonding
- Unit 4: Periodic Table
- Unit 5: Mathematics of Chemistry
- Unit 6: Kinetics and Equilibrium
- Unit 7: Acids and Bases
- Unit 8: Redox and Electrochemistry
- Unit 9: Organic Chemistry
- Unit 10: Nuclear Chemistry
- Unit 11: Laboratory Chemistry

The course evaluation will be determined by using a combination of quizzes, tests, lab experiments and projects. New York State Regents exam will be given at the end of the course. Review book recommended. ****NCAA Approved**

PHYSICS

Number of Weeks: 40 Weeks / Credit: 1.25 / ***Grades: 10,11,12***

Prerequisite: Successful completion of Algebra II or concurrent enrollment

Physics is a course that focuses on the study of matter, energy and its interactions. The course will cover the following topics: mechanics, energy, waves, electricity, magnetism and modern physics. The study of physics requires a solid math back- ground, science lab skills as well as determination. The New York State Regents examination is physics is given at the end of the course. ****NCAA Approved**

ADVANCED PLACEMENT BIOLOGY

Number of Weeks: 40 Weeks / Credit: 1.50 / ***Grades: 11, 12***

Prerequisite: Chemistry or concurrent enrollment. Students must have had a 90 in Living Environment to be eligible to take.

This course will cover the following topics: chemical basis of biology, cells, enzymes, energy transformation (respiration and photosynthesis), cell reproduction, heredity and genetics, development (plants and animals), structure and function in plants, structure and function in animal systems, behavior, ecology, evolution and ethology. Extensive lab work is required with experiments written up in detail. Discussions of current biological topics related to course content outline would also be a fundamental part of the course. **An AP examination is required for this course. The $96 exam fee is subject to change. **NCAA Approved**

ADVANCED PLACEMENT PHYSICS

Number of Weeks: 40 Weeks / Credit: 1 Unit / ***Grade: 12***

Prerequisite: Physics and enrolled in Calculus. Students must have had a 90 in prerequisite class to be eligible to take.

This course covers many of the same topics as Physics. However, the depth and scope is considerably more sophisticated, particularly in regard to mathematical applications and problem solving. **An AP examination is required for this course. The $96 exam fee is subject to change. **NCAA Approved**

ADVANCED PLACEMENT CHEMISTRY

Number of Weeks: 40 Weeks / Credit: 1.50 / ***Grades: 11, 12***

Prerequisite: Chemistry, Algebra II and have taken or concurrent enrollment in Physics. Students must have had a 90 in prerequisite class to be eligible to take AP Chemistry.

This course covers many of the same topics as Regents Chemistry. However, the depth and scope is considerably more sophisticated, particularly in regard to the mathematical applications and problem solving.

Students must complete a prescribed number of laboratory experiments that culminate in written reports. The number to be completed will be determined by the instructor. Failure to complete the assigned labs will jeopardize credit. **An AP examination is required for this course. The $95 exam fee is subject to change. **NCAA Approved**

NU FORENSICS SCIENCE INVESTIGATIONS

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 11, 12***

Prerequisite: Students must have an 85% or higher and have taken three science courses.

This course allows students to investigate the science of evidence. They will learn how various forms of evidence are scientifically collected, tested and interpreted. The evidence for this course will include the study of microscopy through the examination of physical properties of glass, soil, sand, and paint, DNA analysis, document analysis (e.g. hand- writing, typewriting, paper and ink analysis, forgery and voice patterns). This course will also explore the topics within the disciplines of the study of botany, entomology and biology and feature the analysis of organic and inorganic evidence. Legal debates, case studies, field trips and computer projects will be required in this course. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

****NCAA Approved**

ANATOMY & PHYSIOLOGY

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

Prerequisite: Successful completion or concurrent enrollment in Chemistry.

Anatomy and Physiology is designed to better prepare students for a potential career in the health care professions. The first part of the course will focus on a review of important concepts in chemistry and biochemistry. Students will begin by exploring the histology and cell structure of the human body. Students will then examine each of the major systems of the body including integumentary, skeletal,

muscular, nervous, endocrine, cardiovascular, lymphatic, immune, digestive, respiratory, urinary, and reproductive. The course will also use comparative anatomy to examine the evolutionary relationships between species. Content will be delivered through lectures, selected readings, exploration of case studies, and student-designed presentations. Laboratory experiences are diverse, and will include an examination of physical specimens through dissection and analysis using computer models. ****NCAA Approved**

COMPUTER SCIENCE

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10,11, 12***

Prerequisite: Successful completion Algebra.

This course will offer an overview of what computer science is and how it is used in modern society. In this class we will examine the interactions of humans and computers, and how this interaction may be optimized and made more efficient. We will study the nature of the internet, how it works, how it is made, and how we can utilize the resources offered to us by the information age. The course will then examine the coding languages of web pages, specifically html and css. We will learn introductory coding, using an introductory language such as Scratch or Python. The course will also examine the use of large data sets using programs such as Excel and Google sheets. Finally, we will have a culminating unit on the applications and use of robotics.

ENVIRONMENTAL SCIENCE

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

Prerequisite: Successful completion of Living Environment

This course is designed to apply the content acquired in Living Environment and Earth Science using a project based approach to learning. Students will explore current environmental issues facing the world and Buffalo area through books, magazine articles, Internet and in using critical thinking skills. Units include introduction to Environmental Science, Ecology and populations.
****NCAA Approved**

SOCIAL STUDIES

GLOBAL I

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 9***

This course is an in-depth study and analysis of World History through the First Global Age. Units covered include: Introduction to Global History, Ancient World, Expanding Zone of Exchange, Global Interactions and the First Global Age. An attempt is made to select a number of subjects and topics to enable the student to pursue them in greater depth. A wide range of presentation and teaching techniques are used to increase skill building, including interpretation of Documents, Maps, Graphs and Statistical tables, Pictorial and Graphic Materials. Development of research, oral and written reports take place throughout the course. Students have the opportunity to discuss and pool knowledge with their fellow students. There are homework assignments, projects and tests with the emphasis on writing essays. Student evaluation will include participation in class discussion, individualized reading assignments, periodic tests and a common final exam. ****NCAA Approved**

GLOBAL I HONORS

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 9***

Prerequisite: Enrolled in English 9 Honors and minimum of a 90 overall average in SS 8 for Q1-3.

This course is an in-depth study and analysis of World History through the First Global Age. Please see Global History I for an overview of subject matter. The course is taught in conjunction with 9th grade Honors English. There are cooperative readings, assignments and projects receiving English and Global Studies credit. A working knowledge of word processing is helpful. This is a challenging course requiring advanced-level reading and writing. ****NCAA Approved**

GLOBAL II

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 10***

This course is an in-depth study and analysis of World History from the age of Revolution to present day. Units covered include Age of Revolution (1750- 1914), A Half Century of Crisis and Achievement (1900-1945), Twentieth Century since 1945 and Global Connections and Interactions The course requires the student to learn research skills, take notes on teacher lectures, take and organize additional notes, textbook readings, complete assignments and take written tests for each unit. The student will develop research and analytical skills in social sciences along with exercise in cooperative learning and projects. All students enrolled must take the Regents exam in Global History. The Regents exam is a requirement for Regents endorsement. ****NCAA Approved**

AP WORLD HISTORY

Number of Weeks: 40 Weeks / Credit: 1.0 / Grades: 10, 11, 12

Prerequisite: Enrolled in English 10 Honors

In AP World History, students will develop a greater understanding of the evolution of global processes and contacts including interactions over time. Students will utilize their analytical abilities and critical thinking skills in order to understand the historical and geographical context, make comparisons across cultures, use documents and other primary sources and recognize and discuss different interpretations and historical frameworks. Units of study include: Formations of Civilizations, Expanding Zones of Exchange and Encounter, Emergence of the First Global Age, the Age of Revolutions and Empire and A Technological Age. **An AP examination is required for this course. The $96 exam fee is subject to change. **NCAA Approved**

US HISTORY AND GOVERNMENT

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11***

This course is based on the New York State Curriculum Guide, as well as political, economic and social structures. Listed below are the six units that we will study this year. Students may be required to complete projects and oral presentations on such topics as Supreme Court decisions, U.S. Wars, American people or current issues. This approach is designed to prepare students for the Regents Exam in US History and Government. More importantly, the instructors will attempt to make the study of history more relevant to events, issues and problems confronting us in today's world. ****NCAA Approved**

AP UNITED STATES HISTORY

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grade: 11***

Prerequisite: AP World History, Student must have had a 90 in prerequisite

This course places particular emphasis on the use of primary sources and writings of historians to enable students to interpret United States History. A chronological approach is utilized allowing students to construct a logical, sequential framework of people and events. This course begins with the European encounter in the New World and examines events through the 1980's. A college textbook is used in addition to primary sources. Objective and essay tests are administered periodically. Regular reading and writing assignments are required. **An AP examination is required for this course. The $96 exam fee is subject to change.**NCAA Approved**

PARTICIPATION IN GOVERNMENT

Number of Weeks: 20 Weeks / Credit: .50 / ***Grade: 12***

Participatory Government emphasizes an interaction between citizens and government at all levels: local, state and federal. The development of student participation in the processes of government is encouraged. The enhancement of self-government, through the development of knowledgeable, committed, capable, and active students is a continuing goal of education. The primary goal of the "participation in government" mandate is to facilitate and encourage the development of civic minded individuals capable of effectively fulfilling the "office of citizen" that is a fundamental precept of democracy and a right and obligation guaranteed by the 14th Amendment to the Constitution. The end product should be individuals who have the characteristics that define a citizen: civic mindedness, civic intelligence, civic literacy and civic enterprise. ****NCAA Approved**

ECONOMICS

Number of Weeks: 20 Weeks / Credit: .50 */ **Grade: 12***

This course offers the opportunity to become acquainted with the fundamentals of economics. It offers an understanding of basic economic vocabulary, definitions, concepts, philosophy, laws, various types of economic systems and the development of the market economy. Economics provides students with the economic knowledge and skills that will enable them to function as informed and economically literate citizens in our society and in the world. Student evaluation is based on class assignments, activities, and periodic tests. ****NCAA Approved**

NU GOVERNMENT

Number of Weeks: 20 Weeks / Credit: .50 / ***Grade: 12***

Prerequisite: Students must have an 85% or higher in US History or AP US History.

This honors level course studies the essentials of American Government: Congress, the presidency, the federal judiciary, principles of federalism, separation of powers, the federal regulatory system. American government emphasizes an interaction between citizens and government at all levels: local, state and federal. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

****NCAA Approved**

NU ECONOMICS

Number of Weeks: 20 Weeks / Credit: .50 / ***Grade: 12***

Prerequisite: Students must have an 85% or higher in US History or AP US History.

This course offers the opportunity to become acquainted with the fundamentals of economics. It offers an understanding of basic economic vocabulary, definitions, concepts, philosophy, laws, various types of economic systems and the development of the market economy. Economics provides students with the economic knowledge and skills that will enable them to function as informed and economically literate citizens in our society and in the world. Student evaluation is based on class assignments, activities, and periodic tests. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285. **NCAA Approved**

SOCIAL STUDIES ELECTIVE

CRIMINAL JUSTICE & SOCIETY:

Number of Weeks: 40 Weeks / Credit: .50 / Grades: 11, 12

This course offers students an opportunity to further explore the relationship that exists between man, government, and society as seen through the legal system. Subjects to be explored throughout the course include the nature and function of law, the police, the criminal justice system, juvenile law, criminal and civil law, and students' rights and responsibilities. The topics mentioned above will be analyzed through the use of lectures, case studies, mock trials and debates, class discussions, field trips, court tours, and with guest speakers from the local legal community. Criminal Justice & Society is an elective course that may lead students to pursue future coursework and career paths in the fields of Pre-Law, Criminal Justice, Law Enforcement, and Politics, to name a few. ****NCAA Approved**

NU PSYCHOLOGY

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Students must have an overall 85% gpa.

This course will follow the general outline of Introduction to Psychology as it is taught at Niagara University. Topics may include: What is Psychology?, Methods in Psychology, Biological Basics for Behavior, Sensation and Perception, States of Consciousness, Learning, Memory, Language and Thought, Intelligence, Development, Emotion and Motivation, Stress and Health, Personality, Psychological Disorders, Treatment of Disorders and Social Psychology. In addition to the content area, the skills necessary to be successful in a college level course will be emphasized: How to read a college textbook, take notes, manage time, analyze various points of view, give oral presentations, defend points of view, and complete a college level research project. **Students in 11th and 12th grade may choose to take college credit. The cost of this college course is approximately $285.**

SOCIOLOGY

Number of Weeks: 20 Weeks / Credit: .50 / ***Grades: 11, 12***

This course is a general introduction to the field of sociology and social interaction. A student will become aware of basic terms and concepts in the subject. There is an emphasis on the roles and values of the high school students in the United States today. These roles and values are expanded to include all of the people in the United States of any age. Finally, the student learns that he is a member of many institutions: family, religious, governmental, global, etc. Opposing viewpoints on these institutions are discussed and analyzed to lend greater understanding of society as a whole. **Course requirements:** Include quizzes, short papers, etc. A project is required for the final exam. ****NCAA Approved**

TECHNOLOGY

INTRODUCTION TO TECHNOLOGY

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 9, 10, 11, 12***

An introductory course that 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 will learn about designing, sketching, testing and materials in the development and production of modern product ideas. This course will emphasize the development process of a product, but the techniques learned are equally applicable to areas such as garment design, archeological or accident reconstruction, simulated surgery or animated films. **IED meets the state graduation requirement for one year of art/ music/IED.**

ELECTRONICS

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

The course is designed to provide the student with the foundation in digital electronics that is critical to function in all branches of engineering and engineering technology. This is a lab-based course that emphasizes using digital electronics to solve practical problems. Students will learn about analog and digital fundamentals, binary functions, logic gates, counters, analog and digital conversion, programmable logic, circuit design and fabrication. **May be used as a third math credit.**

COMPUTER INTEGRATED MANUFACTURING

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

Computer Integrated Manufacturing is a course that applies principles of robotics and automation. The course builds on computer solid modeling skills developed in Introduction to Engineering Design. Students use computer numerical control (CNC) milling machines and a lathe to produce actual models of three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are also covered. Robots and other material devices will be programmed to load and retrieve parts from machines. Students will also use microcontrollers to explore other methods of process control.

ENGINEERING STUDIES

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

Principles of Engineering is a course that helps students understand the field of engineering and engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit society. The course also discusses concerns about social and political consequences of technological change. Students will perform materials testing, design and construct solutions to engineering problems and explore different engineering related careers. **May be used as a third math credit.**

DESIGN & DEVELOPMENT

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Intro to Tech

An engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses. 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. A true engineering design experience.

NETWORK ACADEMY I

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

This course is being offered through a joint venture of Sweet Home School District and the CISCO Corporation, the world's leading networking company. Students will get hands-on experience in designing and building state-of-the-art, local-area networks.

NETWORK ACADEMY II

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Prerequisite: Network Academy I

Students will be implementing increasingly sophisticated router configurations and switch configurations while honing network-troubleshooting skills. Students will be required to keep an engineering journal and participate in various networking experiences.

MATERIALS & PROCESSING

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 10, 11, 12***

This course is a hands-on class that will involve students in the design, construction and modification of useful and attractive products. Wood, metal and polymer materials will be cut, split, abraded, melted, hardened, softened, mixed, molded, twisted, nailed, screwed and welded. Concepts of push vs. pull manufacturing will be demonstrated as well as design and construction of jigs and fixtures to increase safety and precision.

PROGRAMMING/AP PROGRAMMING

Number of Weeks: 40 Weeks / Credit: 1.0 / ***Grades: 11, 12***

Programming teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem-solving skills. Once students complete the programming course, they will be able to program in

JavaScript. **An AP examination (AP COMPUTER SCIENCE PRINCIPLES) may be required for this course. The $96 exam fee is subject to change**

Student Curriculum Handbook contents, requirements, offerings, and prerequisites are subject to interpretation by the building Principal on a year by year basis.

BOCES
CAREER EDUCATION PROGRAMS

Criteria for Attending a BOCES Program

Vocational learning opportunities are available on a limited basis through Erie 1 BOCES educational campuses at the Harkness Career and Technical Center, Kenton Career and Technical Center and Potter Road Career and Technical Center.

All BOCES vocational placements consume a large portion of the student's day. **DUE TO THE NUMBER OF HOURS AND LENGTH OF THE BOCES PROGRAMS STUDENTS MUST MAKE A SIGNIFICANT COMMITMENT TO THESE PROGRAMS.**

Course requests are not a guarantee of scheduling placement. All vocational requests will be reviewed by a committee composed of a school counselor, assistant principal and principal.

The following student performance criteria will have a significant impact on your acceptance into the program:

- Strong academic performance and motivation to learn. A student cannot be failing two or more classes at the end of the 1st semester.
- Commit to attend a field trip and shadow experience at BOCES
- **Earned at least 11 credits by the June of 2023** Not be behind in any core area- Math, English, Social Studies & Science
- Good attendance and behavior
- Genuine interest in specific career
- Student must discuss vocational interests & four- year plan options during annual review with counselor
- **Students will not be allowed to shadow or sign up for a BOCES Placement after the deadline date, March 16th, 2023**
- Report back to school counselor program interest after field trip in timely fashion

Animal Science (2 Year Program – Harkness, Kenton, Potter)

Animal Science exposes students to careers in the veterinary and animal management fields. This program teaches basic and advanced skills in nutrition, health and disease, animal handling and restraint, grooming, pet first aid, and medical terminology.

Auto Technician Training (2 Year Program – Harkness, Kenton, Potter)

Auto Technician Training is now offered in partnership with Basil, NFADA, Northtown Automotive, Paddock Chevrolet, Towne Automotive and West Herr for an exciting pre-apprentice experience. Students will partake in extended job shadowing, paid summer internships, and be guaranteed a job interview upon completion of the program

Aviation Technology (2 Year Program - Harkness)

Aviation Technology students experience flight firsthand along with the necessary maintenance procedures for today's aircrafts. New this year, students will delve into the technology behind unmanned aircrafts as the world of aviation continually evolves.

Baking & Pastry Arts (2 Year Program – Harkness, Kenton)

Baking and Pastry Arts prepares students to work in the baking and pastry industries. Students will learn all that goes into creating beautiful and delicious pastries, breads, and desserts.

Barbering (2 Year Program - Harkness)

Barbering students learn the art of barbering form experienced instructors, guest speakers and Master Barbers who currently work in the industry. Students as young as seventeen can obtain a Master Barber's license by learning the NYS Board techniques and passing the NYS Master Barber's practical exam.

Building Trades (2 Year Program - Harkness, Kenton, Potter)

Building Trades students learn all aspects of the trade, from using hand and power tools, reading and understanding blue prints, rough framing and to both interior and exterior finish.

Career Exploration (half or full year program - Harkness, Kenton, Potter)

Career Exploration allows students the opportunity to "test drive" up to 8 different programs over the course of the year. Throughout the journey, teachers will help you navigate your next steps for college and career.

Collision Repair (2 Year Program – Harkness, Kenton, Potter)

Collision Repair is now offered in partnership with Auto Collision and Glass, iCar, Carubba Collision, Collision Masters, Gabe's Collision, Joe Basil Chevrolet, and West Herr. Together with these partners, Erie 1 BOCES' new Collision Repair Program offers an exciting pre-apprentice program for students.

Connections: Health Related Careers (New Visions) (1 Year Program – Millard Suburban Hospitals, Buffalo General Medical Campus)

Connections give honors-level seniors the opportunity to observe all aspects of the medical field in action. Students spend the year at either the Buffalo Niagara Medical Campus or Millard Fillmore Hospital working with medical professionals in the areas of their interest.

Cosmetology (2 Year Program – Harkness, Kenton, Potter)

Cosmetology students are part of the exciting and fashionable world of beauty. Students hone their skills in the art and science of cutting, styling, and coloring hair in our live clinic, which is open to the public.

Criminal Justice (2 Year Program – Harkness, Kenton, Potter)

Criminal Justice students explore the major areas of the field including law enforcement, courts, corrections, investigations and forensics, homeland security and private security.

Culinary Arts (2 Year Program – Harkness, Kenton, Potter)

Culinary Arts brings new tastes and worldly adventures to the classroom every day. Students will spend their days preparing and serving meals that look as good as they taste.

Cybersecurity & Networking (2 Year Program - Harkness)

Cybersecurity and Networking prepares students for the Network+ and Cisco CCNA certification exams while teaching network design, hardware programming and network security. Students will learn penetration testing and packet sniffing as a way to prevent unauthorized access to networks (hacking).

Dental Laboratory Technology (2 Year Program - Harkness)

Dental Laboratory Technology offers a complex combination of science and art, as well as the craftsmanship while producing dental restorations that replace natural teeth.

Diesel Technology (New Visions) (1 Year Program- Potter Rd)

Diesel Technology is a one year Tech Prep Program that connects qualified, highly motivated high school seniors with professionals in the workplace. This competitive, off-site program provides unique training with nationally recognized partners.

Digital Media (2 Year Program - Harkness)

Digital Media students create killer graphics, stunning video and eye-popping animation alongside industry professionals.

Early Childhood Education (2 Year Program – Harkness, Kenton)

Early Childhood Education students run their own preschool and playgroups and participate in programs with the Buffalo Zoo, Children's Hospital, and the YMCA.

Education Pathways Academy (New Visions) (1 Year Program with Buffalo State)

Our Education Pathways Academy program provides students the opportunity to learn education terminology and frameworks, technology, structure, mandates, and services. Students will participate in rotations in a variety of educational settings including elementary, middle, and high school, as well as specialty areas such as special education, music, art, occupational and physical therapy, speech, counseling, and administration.

Electrical Systems (2 Year Program – Harkness, Potter, Kenton)

Electrical Systems students apply their knowledge of electrical technology to all phases of the industry. Instruction covers the principles of electricity, reading of blueprints and wiring diagrams, proper use of tools and equipment, basic principles of motor controls with ladder logic and emerging renewable technologies such as wind and solar power.

Electronics & Computer Technology (2 Year Program - Harkness)

Electronics and Computer Technology students explore the latest technology in personal computing, cellular communications, HDTV, virtual reality, Bluetooth, game mechanisms, and car audio/video systems. Students use soldering irons, hand tools, meters and oscilloscopes to build computers, robots, amplifiers, speakers, wireless devices, power supplies and more.

Emergency Medical Services (2 year program- Kenton)

Imagine life in the exciting world of Emergency Medical Services (EMS)! Explore the wide variety of career opportunities available today. Build a foundation in emergency response methods and learn to function as part of a heath care team including patient assessment, treatment and transportation. Gain knowledge of emergency response methods, dispatch procedures and emergency communication protocols. Gain national certifications essential for work in EMS.

Engineering and Robotics (2 Year Program - Harkness)

Engineering and Robotics students learn how things work and build real mechanisms and components formulated from their own ideas to fulfill a need or concept. Students explore many areas of robotics manufacturing and engineering design using state-of-the-art computers, software, modeling, and prototyping.

Fashion Design Technology (2 Year Program - Harkness)

Fashion Design and Merchandising students learn how to dress, style, and create current trends for clients based on design elements and the fashion cycle.

Health Careers (2 Year Program – Harkness, Kenton, Potter)

Health Careers students devote their first year to the study of all that is possible in the health care fields. The second year, known as Basic Nursing Skills, is focused on the practice of clinical skills required in the profession.

Legal Academy (New Visions)(1 Year Program – Canisius College and the University at Buffalo)

Legal Academy gives honors-level seniors the opportunity to experience criminal justice and law-related fields while on campus at Canisius College and UB. Students will also develop a network of professional connections through extensive field experiences across Western New York.

Plumbing, Heating and Air Conditioning (2 Year Program - Potter)

HVAC and Plumbing is a lucrative, high demand trade. In this program, students will learn the fundamentals of residential and light commercial plumbing, heating, and air conditioning installation, service and repair.

Sports Science Careers (2 Year Program – Kenton, Potter)

Sports Science students turn their love of health and fitness into a career in one of the fastest growing industries in the country with careers in physical therapy, sports medicine, and personal training.

Video Production and Recording Arts (2 Year Program - Harkness)

Video Production and Recording Arts is for creative students who love video, film, sound, and music. Students will learn to create and produce original films and music in our state-of-the-art lab.

Web Technologies & Game Programming (2 Year Program - Potter)

Web Technologies and Game Programming is a fun and creative program that teaches students of all skill levels how to create dynamic Web sites. The foundations of programming are also covered as students learn how to plan the logic of game design.

Welding (2 Year Program – Kenton, Potter)

Welding students know that they hold much of the world together. From buildings and bridges to airplanes and equipment, the career path of a welder is full of opportunities.

Zoo, WildLife and Conservation Careers (NEW VISIONS) (1 Year Program - Buffalo Zoo)

Zoo, Wildlife and Conservation Careers is a new program for honors-level seniors. Students in this program consider the 23-acre Buffalo Zoo their home and explore the many career possibilities in animal care, wildlife conservation, and zoo operations.