

SHENENDEHOWA HIGH SCHOOL

English Art
TECHNOLOGY
HEALTH BUSINESS SCIENCE
Physical Education

Program of STUDIES

GRADES 9 thru 12

LEACS LANGUAGES other than ENGLISH Social Studies Mathematics



High School Mission Statement

In accordance with the Profile of a Shenendehowa Graduate, the high school community will pursue the highest levels of academic and personal achievement, as well as civic responsibility, cultural awareness and character development.



General Information

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Departments
Art Career & Technical Education Business Family & Consumer Sciences Technology English Health Education Mathematics Music Physical Education Science Social Studies World Languages/ENL Capital Region BOCES Career & Tech School

The compliance officer for Title IX and Section 504 is Jennie Gliha. She is available between the hours of 8 am and 4 pm at the Shenendehowa Central School District Office, 5 Chelsea Place, Clifton Park, NY 12065. Telephone 518-881-0600.

High School Counselors

Supervisor for Counseling 9-12 –

Matthew Davis, Director of Student Growth & Innovation

High School

Johnna Apple
 Michael Carpentieri
 Linda Coye
 Lauren DiGianni
 Celia Dinneen
 Megan Gifford
 Deanna Grygiel-Thompson
 Steven Hart
 Jessica Irwin
 Gretchen Lynch
 Taylor Mueller
 Maria Payne
 Katherine Sapienza

COUNSELING CENTERS

HS EAST	HS WEST
881-0313	881-0333

ACADEMIC ADMINISTRATORS

Business 9-12	Kristen Lennon-McMahan	881-0370
English 6-12	Kathleen Sherwin	881-0370
FACS 6-12	Kristen Lennon-McMahan	881-0370
Health	Rebecca Carman	881-0600
Math 6-12	Carrie Peverly	881-0370
Music/Art K-12	Frank Rosselli	881-0370
Physical Ed. K-12	Christopher Culnan	881-0390
Science 6-12	Jean Lorch	881-0370
Special Ed. 9-12	Anna Contursi	881-0370
Social Studies 6-12	Lisa Kissinger	881-0370
Technology 6-12	Kristen Lennon-McMahan	881-0370
World Languages/ENL K-12	Madeline Wright	881-0370



General Information (continued)

Introduction to Your Program of Studies

The purpose of the Program of Studies is to provide a roadmap to a successful high school experience. Shenendehowa offers many paths to success. Students are encouraged to choose an appropriate program and to evaluate that program each year with the help of their school counselor and parent/guardian.

The Program of Studies outlines three aspects of the high school program:

1. An explanation of graduation requirements as specified by the New York State Board of Regents for Local, Regents, and Advanced Regents Diplomas.
2. Answers to commonly asked questions regarding various aspects of the high school program.
3. A list and description of courses and sequences offered by the department.

Cooperation among parents/guardians, students and staff is important when selecting a program of study that will provide for the educational needs of each student. The Shenendehowa High School staff will provide assistance to you in developing your program and will assist in the decision-making and problem-solving processes. School Counselors will meet with each student individually to discuss course requests. If you have any questions, please call the Counseling Center or an Academic Administrator.

- West Counseling, College & Career Center – 518-881-0333
- East Counseling, College & Career Center – 518-881-0313
- Academic Administrators – 518-881-0370

NOTE: Courses listed in the Program of Studies may not be offered every year.



Graduation Requirements

REGENTS DIPLOMA

Course Requirements - 22 credits required		Testing Requirements - Score of 65+	
English	4 credits	English Language Arts Regents Exam	1 exam
Social Studies <ul style="list-style-type: none"> 2 credits of Global History or Geography 1 credit of US History ½ credit in Participation in Government ½ credit in Economics 	4 credits	Social Studies Regents Exam	1 exam
Mathematics	3 credits	Mathematics Regents Exam	1 exam
Science <ul style="list-style-type: none"> 1 credit Life Science 1 credit Physical Science 1 credit Life or Physical Science 	3 credits	Science Regents Exam	1 exam
Health	.5 credit	AND ONE OF THE FOLLOWING: <ul style="list-style-type: none"> A score of 65+ on a fifth Regents exam in Social Studies (Humanities Pathway), Math (STEM Math Pathway) OR Science (STEM Science Pathway). A state-approved Career and Technical Education assessment/pathway (the list is available from BOCES). C-DOS Pathway-Career Plan - (216 hours CTE coursework plus 54 of those hours in a work-based learning experience plus the completion of an Employability Profile). The 54 hours do not need to be in the same program of the coursework. 	
Visual Art, Music or approved Technology or Family and Consumer Science (FACS)	1 credit		
World Languages	1 credit		
Physical Education	2 credits		
Electives	3.5 credits		

REGENTS DIPLOMA WITH HONORS ENDORSEMENT

Student achieves a Regents diploma with a computed average of 90% or above on the 5 (or 4 if CTE/CDOS) required Regents exams as referenced in the Regents Diploma requirements

REGENTS DIPLOMA WITH ADVANCED DESIGNATION

Course Requirements - All of the requirements for a Regents Diploma plus students must also choose from one of the following:		Testing Requirements - Score of 65+	
<ul style="list-style-type: none"> World Languages or Art, Music or Career Technology Education (CTE) 	2 credits	English Language Arts Regents Exam	1 exam
	5 unit sequence	Global History and Geography and US History and Government Regents Exam	2 exams
		Mathematics Regents Exam	3 exams
		Life Science and Physical Science Regents Exam	2 exams
		World Languages Checkpoint B Exam**	1 exam
		**Reference "AND ONE OF THE FOLLOWING" above from the Regents diploma requirements	

ADVANCED REGENTS DIPLOMA WITH HONORS ENDORSEMENT

Student achieves a Regents diploma with a computed average of 90% or above on the 8 required Regents exams. The World Languages Checkpoint B Exam is not included in the computed average requirement.



General Information (continued)

Requirements For Grade-level Assignment - Promotion/Retention

Grade Level/Class	Graduation Year	Units of Credit Required
Grade 9/Freshman	2028	Promotion from 8th grade.
Grade 10/Sophomore	2027	Students have earned five (5) units of academic credit* including at least one (1) unit of credit in English, and/or one (1) unit of social studies, and one (1) unit of credit in math or science.
Grade 11/Junior	2026	Students have earned ten (10) units of academic credit including at least three (3) units of English and/or social studies, one (1) unit of math, one (1) unit of science, one (1) unit of world language, and in addition, at least one half (.5) unit of physical education.
Grade 12/Senior	2025	Students have earned fifteen (15) units of academic credit including at least five (5) units of English and/or social studies, two (2) units of math, two (2) units of science, and in addition, at least one (1) unit of physical education and the student is enrolled in courses that will meet all graduation requirements by June of their senior year.

*Academic credit includes all courses other than physical education.

Course Selection Policies

The responsibility for selection of courses are shared by the student, the parents/guardians, teachers, and the counselor. Course selection should be made carefully. Teacher recommendations will be available in December for review by parents/guardians and students. Counselors will meet individually with students in January-March and students will make their course requests during this time period. Students' initial requests will be available in March for final approval.

Course Selection Policies

All students must take a minimum of five credits per year plus physical education.

- For any schedule change request after September 20, 2024, please contact your student's counselor. These requests will require completion of a course request document and administrative approval.
- Changes after September 20, 2024, will be reflected on the transcript to indicate that the student has withdrawn from the class.
- Requests for specific teachers or specific course times are not permitted.

Weighted Class Rank & GPA

All Honors courses (and courses taken in the 8th grade for high school credit except for 8th grade languages) will be weighted by a multiplier of 1.03 when calculating class rank and GPA. All Advanced Placement (AP) and college level courses taken at Shenendehowa High School will be weighted by a multiplier of 1.06 when calculating class rank and GPA. Weighted and unweighted GPA and rank will appear on the student's transcript.

Scheduling Timeline

- Teacher recommendations communicated to students, parents & guardians December 2023
- Counselors meet individually with students to discuss course requests in January - March
- Student's initial course requests communicated to parents & guardians March 2024
- Parents must submit in writing a change to course request list by March 21, 2024
- Certain courses may have reduced enrollment due to limited courses/sections

Timeline for Course Adjustments 2024-25

	Level Change, add/drop	Level Change, or drop w/academic administrator approval
Full-year course	Start: September 4, 2024 End: September 20, 2024	Start: September 23, 2024 End: November 22, 2024
First semester course	Start: September 4, 2024 End: September 20, 2024	Start: September 23, 2024 End: October 18, 2024
Second semester course	Start: January 27, 2025 End: February 7, 2025	Start: February 10, 2025 End: March 14, 2025



General Information (continued)

Pathways

Regents Pathways	Honors Pathways	Acceleration/AP/College Course Pathways
<p>Profile of a Regents Student: Students in the Regents level pathway are working toward an Advanced Regents or Regents Diploma. Course requirements for these diploma options are outlined in Board of Education Policy 7220 and Regulation 7220R. Students in this Pathway are developing the characteristics outlined in the Profile of a Shenendehowa Graduate.</p> <p>Description of a Regents Level Course: Courses in the Regents Pathway develop students' ability to master grade level standards and focus on developing the skills students need to be college and career ready.</p>	<p>Profile of an Honors Student: In addition to the characteristics of a Regents Pathway Student: Students who:</p> <ul style="list-style-type: none"> • demonstrate strong academic aptitude; • are naturally driven to learn at high levels; • enjoy greater levels of academic challenge; • are able to solve problems and demonstrate higher levels of aptitude in the subject matter. <p>Description of an Honors Course: Courses in the Honors Pathway develop students' ability to think critically, communicate effectively, and solve problems at a more challenging level. Honors level courses are more rigorous and complex than Regents level courses.</p>	<p>Profile of an Accelerated Student: In addition to the characteristics of a Regents and Honors Level Student: Students who:</p> <ul style="list-style-type: none"> • grasp ideas quickly in order to effectively manage the pace of the curriculum; • have a high level of interest in the subject area; • demonstrate creativity and critical thinking; • often initiate their own learning; • communicate (read, write, speak, and listen) above grade level; • demonstrate the interest in and ability to reflect on their learning, as well as provide feedback on ideas proposed by others; • display independence and recognize the additional responsibility and effort that is required for these levels of classes. <p>Description of an Accelerated Level Course: Courses in the Accelerated Pathway present advanced-level material to students at a more rapid pace.</p>

How 4-Year Colleges view your high school program:
Four-year colleges look for students who have taken the most challenging program available to them and in which they can demonstrate success. Most colleges indicate that the single most important part of a student's application is the high school transcript. The transcript includes:

- The names and levels (e.g., Honors, A. P., College) of the courses taken
- The final averages earned in each course completed
- Regents exam scores
- The 3-year cumulative weighted/unweighted GPA and rank
- World language 8th grade Checkpoint A exam. Score is not calculated into GPA
- PE is not calculated in GPA
- The honors or acceleration multiplier (1.03 and 1.06 are on transcript next to course)
- NYS Seals of Distinction

About Advanced Placement (AP) and College Courses:
How colleges treat college credit that is earned in high school varies. Each has its own specific guidelines which are usually applied after a student has decided to attend that college. A primary factor to consider when deciding whether or not to pay tuition for college credit is: will the college I attend accept the credit? The best way to answer that question is to call colleges in which you are interested. Ask whether they would accept transfer credit from SUNY Albany, HVCC, Syracuse University, etc. Some may apply the credit to your transcript; some may give you advanced standing; some may waive other requirements. Advanced Placement (AP) courses are standardized in that they prepare students to take a national comprehensive examination at the end of the course. All students enrolled in AP courses are expected to take the AP exam. Advanced Placement exam fees average \$98.00 per exam. The fee is waived for students who qualify for the Federal Free and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch program and the fee would present a financial hardship. Many colleges will issue credit or advanced standing to students who earn scores of 4 or 5 on an AP exam; some will consider a score of 3 on some AP exams.



College Credit Opportunities

In addition to the Advanced Placement courses listed in the Program of Studies, Shenendehowa High School has formed partnerships with various institutions of higher education that provide students the opportunity to graduate from high school with college credit for courses taught at Shenendehowa High School. Students who enter a college or university with credits earned often are able to add a major/minor, have lighter course loads, and more flexibility with their scheduling as a result of earning credits in advance. Acceptance of courses varies from institution to institution. Credit earned through SUNY partner colleges will be transferable to all SUNY/CUNY schools depending on course grade. Credit may count toward General Education, Liberal Arts, free elective, or major/minor courses depending on the requirements of a student's chosen degree program.

The partnerships and applicable courses are listed on this page. Please note that there is a credit hour fee associated with obtaining college credits for each of the courses outlined below; however, it is a reduced tuition fee. Tuition fees may be subject to change. Students who receive free and reduced lunch may be eligible for a partial or full fee waiver. Registration information is provided by the teacher to students at the beginning of each course. Please see the course descriptions in this publication for any additional details including final exams and other requirements for credit. If you have questions, please contact the Academic Administrator's office.

It is important to note that if the student receives college credit, the grade will be the start of the student's college transcript. If the student does poorly and attends the college the course is accredited from the student could be on academic probation which could affect financial aid. If you have any questions about the impact of College in the High School courses on college GPA, please contact your student's counselor.

Hudson Valley Community College

- College Principles of Marketing (MKTG 120)
- College Entrepreneurship (ENTR 110)
- College Intermediate Algebra (MATH 110)
- College Real World Mathematics (MATH 120)
- College Algebra with Trigonometry (MATH 150)
- College Precalculus (MATH 170)
- College Calculus 3 (MATH 210)
- College French 3 (FREN 101)
- College French 4 (FREN 200)
- College French 5 (FREN 201)
- College Spanish 3 (SPAN 101)
- College Spanish 4 (SPAN 200)
- College Spanish 5 (SPAN 201)
- College German 3 (GERM 101)
- College German 4 (GERM 200)
- College German 5 (GERM 201)
- College Latin 3 (LATN 101)
- College Latin 4 (LATN 200)
- College Latin 5 (LATN 201)

Shenendehowa High School
PROGRAM OF STUDIES



- College Journalism (ENGL 130)
- College English Composition (ENGL 101)
- College Public Speaking (ENGL 125)
- College Architectural Design (CNST 120)
- College Economics (ECON 100)
- College Intro to Physics (PHYS 115)
- College Intro to Chemistry (CHEM 105)
- AP Chemistry (CHEM 110/111)
- College Accounting (ACTG 110)
- College Personal Finance & Investment (ACTG 120)

SUNY Albany

- College Forensic Science (ABIO 175)
- College Modernism (AENG 106)

SUNY Cobleskill

- College Child & Family Wellness (ECHD 240)
- College Seminar in Child Growth & Development (ECHD170)
- College Early Childhood Education (ECHD 130)
- College Individuals with Disabilities (ECHD 280)

Rochester Institute of Technology

- College Drawing and Design for Engineering (PLTW 101)
- College Computer Integrated Manufacturing (PLTW 104)
- College Principles of Engineering (PLTW 102)
- College Digital Electronics (PLTW 103)

Siena College

- College Physics (PHYS 110/PHYS 120)

Syracuse University

- College Psychology (PSY 205)
- College Sociology (SOC 101)
- College Policy Studies (PST 101)



General Information (continued)

What employers are looking for when hiring recent high school graduates:

- Math and communication skills
- The ability to get along with others and collaborate
- Willingness to learn new things
- A sense of responsibility; an employee who will be on time and take pride in his/her work and appearance
- A good record of attendance in high school

Student Assistance

If you find that you are having difficulty in school with academics or personal issues, there are people in the high school who can help:

SCHOOL COUNSELOR - Provides academic, personal/social/emotional, and college and career counseling. Your counselor will meet with you to select appropriate courses which will prepare you for your post-high school plan.

STUDENT SUPPORT COUNSELOR- Provides crisis counseling and referrals to outside agencies for students experiencing personal or family problems. Also, they provide networking and assistance when students are placed or referred to outside agencies.

SCHOOL PSYCHOLOGIST - Performs psycho-educational evaluations to determine eligibility for special support services for students who are encountering academic and/or emotional difficulties in school.

Additional Academic Support

CLASSROOM TEACHER – Your classroom teacher is available during student prep to provide extra help. Before and/or after school help may be available as well. See your teacher to make arrangements.

ACADEMIC ADMINISTRATORS – They are available to assist you with questions you may have regarding curriculum and specific course offerings.

PEER TUTOR – Peer tutoring is available. See your counselor for more information.

AFTER SCHOOL ACADEMIC SUPPORT – Students can get academic assistance from teachers or student tutors, after the regular school day. This is offered when we have late bus runs.

AIS – Academic Intervention Services

AIS services are offered in:

- English
- Math
- Reading – Gr. 9
- Social Studies
- Science

These courses are designed to provide assistance to those students who have not been successful on required Regents exams or have been approved by department administrators.

Aspire Program

The goal of the Aspire program is to provide an academically challenging and supportive environment to motivate and instruct students who have experienced difficulty achieving success in the traditional school setting. To achieve this goal, students work with selected teachers who provide optimum personal attention and give access to a range of high quality resources. The program teaches and reinforces positive social behaviors necessary for students to become successful community members. Interested students must apply to the program. Applicants are selected by a committee of teachers, counselors, and administrators. School counselors have information about the program and the application process. Students select courses in their areas of strength and interest from the High School Program of Studies, in addition to core academic courses. Juniors and seniors may also choose a program from the Capital Region BOCES Career and Technical School.



Art Department

Foundation Level Courses

1. All Foundation Level Courses meet the one unit graduation requirement for Art/Music
2. Students may only take one of the three foundation level courses as they all constitute the same credit.
3. All Foundation Level Courses will include
 - o studio projects to develop expression through visual media
 - o Study of contemporary and master artists
 - o Exploration of various mediums
 - o Exploration of art as expression throughout time

Supplies & Materials:

Most materials will be supplied by the art teacher. However, students may be asked to purchase sketch books, flash drives, film & photo paper or other personal art materials. .

All art courses promote:

- Creativity and Innovation
- Critical Thinking and Problem Solving
- Communication and Collaboration

Graduation Requirements

REGENTS DIPLOMA

The 1 unit art/music required for a Regents Diploma is supported by any Foundation Level Course:

- Studio in Art: Fine Arts
- Studio in Art: Crafts
- Studio in Art: Electronic Media

REGENTS DIPLOMA WITH ADVANCED DESIGNATION

A 5-Unit Pathway in Visual Arts will support a Regents Diploma with Advanced Designation beginning with a Foundation Level Course.

PATHWAY FOR PROSPECTIVE ART STUDENTS

Since the vast majority of art schools require a Fine Art Portfolio (one which includes observational drawings) for admission and scholarship consideration, early in the Senior year, this order of sequenced courses is recommended for any students interested in careers in: fine arts, ceramic design, sculpture, commercial design, computer graphic design, art education, art therapy, industrial design, fashion design, landscape design, architecture, photo, film & animation. Students pursuing this pathway will keep all classroom and sketchbook assignments and bring that portfolio of work from course to course.

Studio in Art: Fine Arts, Crafts, Electronic Media = 1 Unit
Drawing & Painting I = 1 Unit
Drawing & Painting II = 1 Unit
Integrated Studio and/or AP Studio = 1 Unit / 1 Unit
Sculpture, Ceramics, Graphic Design, or Photo = 1 Unit

PATHWAY FOR GENERAL STUDENTS

Foundation Level Studio in Art Course = 1 Unit
4 Art Electives (beyond Foundation Level) = 4 Units

PATHWAY FOR ART/MUSIC STUDENTS

Foundation Level Studio in Art Course = 1 Unit
Music Theory = 1 Unit
Art or Music Electives = 3 Units



Art Department (continued)

Typical Art Progressions

Program	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Art Progressions	Required Foundational Level Art Courses:	Electives: Drawing and Painting I	Electives: Drawing and Painting II	Electives: Integrated Studio --OR-- Advanced Placement Art
	Studio in Art: Fine Arts -- OR --	Electives: Photography --OR-- Graphic Design --OR-- Film and Video	Electives: Color Photography --OR-- Advanced Graphic Design --OR-- Film and Video	Electives: Any art elective, providing the prerequisite is met
	Studio in Art: Electronic Media -- OR --	Electives: Design in Ceramics --OR-- Design in Sculpture	Electives: Advanced Ceramics --OR-- Design in Sculpture	Electives: Any art elective, providing the prerequisite is met
Accelerated Art	Electives: Drawing and Painting I	Electives: Drawing and Painting II	Electives: Integrated Studio --OR-- Advanced Placement Art	Electives: Integrated Studio --OR-- Advanced Placement Art

Foundation-Level Art Classes

MIDDLE SCHOOL ACCELERATION OPTION:

Studio in Art: Fine Arts is typically taken by 9th-grade students. However, students may be selected to take this course in grade 8 and are then expected to advance through the Pathway for Prospective Art Students during grades 9-12.

Studio in Art: Fine Arts

1 Year 1 Unit

Studio in Art is a foundation level course where students can begin to develop their artistic voice. The elements of art and the principles of design lead this journey into art making using traditional and contemporary approaches to 2D and 3D art making.



Students will explore a variety of techniques and media through studio projects including but not limited to drawing, painting, printmaking, sculpture and computer arts.

Studio in Art: Crafts

1 Year 1 Unit

Studio in crafts is a foundation level course where students can begin to develop their artistic voice. The elements of art and the principles of design lead this journey into making art with a focus on contemporary and traditional crafts. Students will experience a variety of art materials as they develop work.

Studio in Art: Electronic Media

1 Year 1 Unit

Studio in Electronic media is a foundation level course where students can begin to develop their artistic voice. The elements of art and the principles of design lead this journey as students explore computer technology in relation to creative expression. Students will learn how to use powerful software tools, such as Adobe Illustrator and Photoshop, to create art for print. Students will learn how to make original illustrations, commercial art, and photograph manipulation.

Visual Art Courses

Students pursuing this pathway will keep a portfolio. Along with this traditional portfolio, they will be offered an opportunity to take digital photos of their work. They will bring that portfolio of work from one course to the following course, as they progress through this pathway of Visual Art Courses.

Drawing and Painting I

1 Year 1 Unit

This introductory 2D course in drawing and painting will explore processes including drawing, painting, printmaking, and design using a variety of materials and techniques. Emphasis will be placed on acquiring and improving observational drawing and painting skills. Students will also gain a better understanding of the artistic or creative process including inspiration, development, creation, presentation, and reflection on art-making. Students will maintain a sketchbook and portfolio of their artwork.

Course Requirements/Recommendations

- Requirement: Studio in Art
- Recommendation: 85 final average in Studio in Art

Drawing and Painting II

1 Year/1 Unit

This advanced 2D course is a continuation of Drawing and Painting I and will explore a variety of materials and techniques. Emphasis will be placed on further development of observational drawing and painting skills including color theory, brushwork, and personal style. Students will maintain a sketchbook and a portfolio of their work.

Course Requirements/Recommendations

- Requirement: Drawing and Painting I with portfolio and sketchbook from previous courses
- Materials: Sketchbook
- Recommendation: 85 final average in Drawing and Painting I



Integrated Studio in Art & Design

1 Year/1 Unit

This advanced course follows the focus established in Drawing and Painting I and II and will expand on those skills to integrate traditional and contemporary art-making techniques and concepts with experimentation and personal decision making. Continued practice of drawing, painting, printmaking, and design skills will be developed into original works that stress personal expression through a wide array of art mediums. Emphasis will be placed on the artistic or creative process including inspiration, development, creation, presentation and reflection on art-making. Students will maintain a sketchbook and both a physical and digital portfolio of their work.

Course Requirements/Recommendations

- Requirement: Drawing and Painting II with portfolio and sketchbook from previous courses
- Materials: Sketchbook
- Recommendation: 85 final average in Drawing & Painting II

Advanced Placement Studio in Art & Design (Drawing or 2D design)

Advanced Placement – Studio Art

1 Year/1 Unit (Double Period)

This course is offered to highly motivated art students interested in an in-depth study of traditional, contemporary and personal approaches to visual art-making. Students must be willing to assume much of the responsibility for their own learning and will be required to produce a serious body of work. The required practice and development of artwork will be equivalent to an introductory college course in studio art or design. Preparation of a college admissions portfolio, along with assembling original works and digital images of their work for the AP portfolio exam will be the primary focus of this course. The AP Exam is evaluated through the submission of a specific portfolio to adjudicators at The College Board. Many colleges will award credit based on satisfactory grades on this AP Exam.

Students choose to complete one of two portfolio options:

1. Drawing - Which can include painting, printmaking, mixed-media and/or digital processes
2. 2D Design - Which can be created using a variety of processes including but not limited to graphic design, fashion design, interior design, illustration, photography, mixed-media, and digital processes

Course Requirements/Recommendations

- Requirements: Drawing & Painting 2 or Advanced Graphic Design or 3 total art credits with teacher recommendation
- Recommendation: Teacher recommendation plus a 90 average in Studio in Art and Design 2, Advanced Graphic Design or Advanced Photography
- Portfolio and sketchbook from previous art courses
- Submission of summer assignments
- Students taking the AP course must take the AP Examination (approximate cost \$95)
- The AP exam must be taken in order to earn the AP designation on the transcript and the multiplier of 1.06 in the weighted rank calculation



3-D Art Courses

Design in Ceramics

1 Year/ 1 Unit

This hands-on course will explore creating ceramic sculptures and pottery with clay. Processes will show students how to slab, coil, and throw on the potter's wheel as well. Students will also learn how to glaze, underglaze and many more techniques to create 3 dimensional ceramic sculptures and pottery.

Course Requirements/Recommendations

- Requirement: Foundation Level Studio Course
- Recommendation: 85 final average in Foundation Level

Design in Advanced Ceramics

1 Year/ 1 Unit

Students will continue their exploration of working hands-on with ceramics and pottery. With their increased skill set, students will explore problem solving projects using clay and creating work that is functional as well as aesthetically pleasing. Wheel throwing, hand building, and new firing techniques are all a part of the Advanced Ceramics curriculum.

Course Requirements/Recommendations

- Requirement: Design in Ceramics
- Recommendation: 85 final average in Design in Ceramics

Design in Sculptural Media

1 Year/ 1 Unit

This course will explore techniques and creative processes of three dimensional expressions. Sculptural forms may include construction in such materials as wood, metal, clay and plaster using traditional and contemporary methods. Students will benefit from taking ceramics to build 3-D skills.

Course Requirements/Recommendations

- Requirement: Foundation Level Course
- Recommendation: 85 final average in Foundation Level

Electronic Media Art Courses

Photography

1 Year/ 1 Unit

This course is an introduction to 35mm black and white photography and the use of photographic materials and processes as an art medium. Content covered includes: 35mm camera operation; film exposure; lighting techniques; film developing; printing contact sheets; advanced darkroom techniques such as, solarization, sepia, hand coloring, and other specialized techniques, making enlargements and mounting prints. Emphasis will be placed on seeing with imagination and creativity, and organizing what is seen into well designed photographic images.

Course Requirements/Recommendations

- Requirement: Foundation Level Course
- Recommendation: 85 final average in Foundation Level
- Equipment & Materials: Students should have access to a 35mm manual film camera or automatic camera and may be required to purchase supplies should they be needed beyond the allotment provided by the district



Color Photography

1 Semester/ .5 Unit

Color Photography deals with all aspects of photography from picture taking and editing to lighting, experimentation, color printing, and mounting final prints. Students will use Adobe Photoshop to edit digital images. Students will have the opportunity to build upon the photo skills and techniques learned in B&W photography to expand their portfolios.

Course Requirements/Recommendations

- Requirement: Photography
- Recommendation: 85 final average in Photography

Graphic Design

1 Year/ 1 Unit

This 2-D digital media course is designed to expose students to experiences in the career applications of Graphic Design for print media using the “School to Work” concept. The class functions as a working design agency using local non-profit groups as their client base. Students must adhere to deadlines. The focus is creating professional quality graphic designs for projects which may include logo design, poster design, t-shirt design, advertisements, brochures, and outdoor advertisements using Adobe Illustrator and Adobe Photoshop.

Course Requirements/Recommendations

- Requirement: Foundation Level Course
- Recommendation: 85 average in Foundation level
- Equipment and Materials: flash drive suggested

Advanced Graphic Design

1 Year/ 1 Unit

This digital media course is designed to expand a student’s experience in Graphic Design using digital technology while concentrating on the Principles of Design as they relate to 2-D and 3-D design, Advertising Design, Typography, Package Design and Web Design. The focus will be to enhance creative problem solving skills, further build technical skills, develop a personal style and build a portfolio using the Adobe Creative Suite.

Course Requirements/Recommendations

- Requirement: Graphic Design
- Recommendation: 85 Final average in Graphic Design
- Equipment and Materials: 1 GB Flash Drive(minimum), Small Sketchbook

Film and Video

1 Semester/.5 Unit

This media art course provides an introduction to basic film and video techniques. Areas studied will consist of composition (shots and angles), story development/writing, directing, film and sound editing, different types of film styles, and creative approach. Filming will be done outside of school; all editing will be computer driven and completed during class time. Students will be required to complete several films/videos of their own and talk/write intelligently about their work and the work of their fellow filmmakers or other artists. Successful completion of Photography prior to enrollment in this course would be beneficial.

Course Requirements/Recommendations

- Requirement: Foundation Level Course
- Recommendation: 85 final average in Foundation Level Course and/or Photography
- Equipment & materials: Access to SD compatible video camera (no firewire), 32GB or higher SD card, camera phone, USB cords for device(s), 32GB or higher flash drive, external hard-drive



Introduction to Animation

Full Year/1 Unit

Unlock the world of animation in our Intro to Animation course designed specifically for high school students with a passion for creativity and storytelling. This dynamic and hands-on course provides an engaging entry point into the exciting realm of animation, offering students the opportunity to bring their imaginations to life through the magic of moving imagery. The course is designed to give students an experience with multiple styles of animation with an emphasis on the foundations/basics of animation through modern techniques and software.

Throughout the course, students will be encouraged to test their creativity, work collaboratively, and express themselves through the captivating medium of animation. Whether you dream of a career in the arts or just enjoy exploring your artistic side, this course provides a solid foundation for anyone eager to delve into the captivating world of animation.

Course Requirements/Recommendations

- Requirement: Foundation Level Course
- OPEN TO STUDENTS IN GRADES: 10-12

* Priority given to students in grades 11-12.



Career and Technical Education (CTE)

College and career options available to students of the 21st century are changing rapidly. More than ever before students will be expected to have exposure to many disciplines. CTE electives listed are designed for all students, regardless of their course work focus. They are designed to be engaging, relevant, and connected to real world workforce trends.

Business Department

Financial literacy classes teach students the basics of money management: budgeting, saving, debt, investing, and giving. That knowledge lays a foundation for students to build strong money habits early on and avoid many of the mistakes that lead to lifelong money struggles. In addition, do you realize that about 20% of all college students major in business or a computer-related field of study and another 25% earn an advanced degree in business? This is not surprising when you consider most 21st century jobs will require a business and/or computer background.

The Business Education Department at Shenendehowa High School provides an excellent opportunity for students to begin to develop the 21st Century skills, abilities, and understandings that will allow them to handle many professional and personal business affairs upon graduation.

These course offerings include a variety of learning experiences that will give students the basic skills and knowledge to be a successful participant in today's society as a consumer, a citizen, and an employee. Whether they are planning to continue their formal education in college, at a vocational trade school, in the military, or enter directly into the workforce, the skills and abilities learned in these elective courses will be a valuable asset.

A large number of Shenendehowa High School students who pursue two or four-year college degrees will major in some aspect of business. Therefore, several of the business courses offered provide students the option to earn college credit through articulation agreements with some of the area's finest colleges and universities, providing students who elect this option with an excellent head start in their college careers.

The department strives to prepare students for the fast-changing world by offering several courses essential to their personal, educational, and future employment success.

The following information, in addition to the course descriptions that follow, should be helpful to students in planning their business course selections at Shenendehowa High School.

- CEIP (Career Exploration Internship Program) is open to seniors only.
- Students seeking an Advanced Regents Diploma may use a 5-unit business program as a substitute for the foreign language requirement.
- College Accounting, College Entrepreneur, College Finance & Investments and Marketing College all are offered with an opportunity to take for college credit.
- College Finance & Investments can lead to a certification in financial literacy.
- Many of our Business Education classes feature presentations by local and regional business people who present practical applications to the theory presented in the classroom.



CTE - Business Department (continued)

Typical Business Progressions

Students Interested in	GRADE 10	GRADE 11	GRADE 12
General Business Course Progression	RECOMMENDED Introduction to Business Computer Applications Desktop Publishing/ Webpage Design	RECOMMENDED Computer Applications (1/2 year) – AND – Desktop Publishing/ Webpage Design (1/2 year) Additional business courses may be selected	ELECTIVE OPTIONS: Principles of Accounting Business and Personal Law College Entrepreneurship Sports and Entertainment Marketing Career Exploration Internship Program (CEIP)
Accounting/ Finance Course Progression	RECOMMENDED Introduction to Business Computer Applications Desktop Publishing/ Webpage Design	RECOMMENDED Principles of Accounting – AND/OR – College Personal Finance and Investment Additional business courses may be selected	RECOMMENDED College Accounting – AND/OR – College Personal Finance and Investment ELECTIVE OPTIONS: Business and Personal Law College Entrepreneurship Sports and Entertainment Marketing Career Exploration Internship Program (CEIP)
Marketing Course Progression	RECOMMENDED Introduction to Business Computer Applications Desktop Publishing/ Webpage Design	RECOMMENDED Sports and Entertainment Marketing Additional business courses may be selected	RECOMMENDED College Principles of Marketing ADDITIONAL ELECTIVE OPTIONS: Principles of Accounting Business and Personal Law College Entrepreneurship Computer Applications Desktop Publishing/Webpage Design Career Exploration Internship Program (CEIP)
Designed for all students		Financial Literacy: Money Matters	Financial Literacy: Money Matters

Note:

- These progressions are typical progressions; however, students may customize their progression at any time..
- A five-unit business sequence may be used instead of a LOTE sequence for an Advanced Regents Diploma.



CTE - Business Department (continued)

Business Courses

Financial Literacy: Money Matters

1 Semester .5 Unit

Course Description

Are you thinking about life after Shen? Do you think you need a little help understanding all of the “money” related issues that you might be facing? Banking? Credit Cards? Taxes? Insurance? Loans for school, home, and automobiles? The list goes on and on. If you answered “yes” to any of the above questions, how about taking the new ½ year “Financial Literacy: Money Matters” course. We have designed this course for those of you who may not have had the chance or desire to take a business course but now realize that you need some guidance before you graduate. We’ll give you the tools and experiences that will better prepare you for the world ahead of you.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADE: 11 and 12

*This course has no prerequisites and is designed to fit flexibly into the schedule of students in any course or career progression. This course is part of the NYSED approved CTE pathways: Child and Family Studies, Building Sciences, and Transportation Systems.

Computer Applications

1 Semester/ .5 Unit

Course description

This course is designed to fully utilize the capabilities of the Microsoft Office Suite – Excel, PowerPoint, Word and Access - and demonstrate to students how they are used to enhance productivity in their personal, academic, and professional lives. In addition, students are introduced to the basics of the Google productivity apps available on their Chromebooks: Gmail, Docs, Sheets, Slides, Forms, Drawings, and Sites. Students move from easy step-by-step learning to projects-based activities and exercises, building their competency, and developing a solid foundation in 21st Century technical literacy. An excellent opportunity to learn valuable and relevant computer skills required for future educational and work related tasks.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10-12.

Desktop Publishing & Web Page Design

1 Semester/ .5 Unit

Course description

To be competitive in today’s fast paced business world, it is essential to market products and services through print and digital media. Previously, businesses, organizations and entrepreneurs had to hire graphic firms with expensive equipment and computer software to create polished documents and media. With access to less expensive but powerful software, computers and printers, small businesses and entrepreneurs are now capable of publishing and printing their own brochures, fliers, posters, menus, web pages, and video clips. In this course, students will learn the fundamental layout and design skills as they develop creative and appealing projects using Microsoft Publisher and web page design software.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10-12

Recommendation: Computer Applications



CTE - Business Department (continued)

Introduction to Business

1 Year/ 1 Unit

Course description

This course focuses on introducing students to a number of basic business concepts, and is designed to help students understand the fundamental importance of financial literacy, and prepare them for making sound personal business, economic, and career related decisions. Students learn to appreciate how business impacts their lives at the local, state, national, and world level. Topics include the economy, international trade, ethics, marketing, finance, and management. In addition, students are introduced to many personal finance topics such as the importance of becoming a wise and knowledgeable consumer, how banking and credit/loan services work, budgeting, insurance, and the career search process including resumes and interviewing skills. An introductory course that could lead to further study within the Business Education Program at Shenendehowa.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10-12

Sports & Entertainment Marketing

1 Year/ 1 Unit

Course description

This course studies the phenomenal growth of sports and entertainment marketing in North America and across the globe. Through case studies and projects students will learn about corporate sponsorships, sports & entertainment event promotion, team management, player/performer contracts, endorsements and multi-media advertising. Sports and Entertainment Marketing is one of the fastest growing fields in college business programs.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 11-12.

Prerequisite: Introduction to Business

Recommendation: Computer Applications

Principles of Accounting

1 Year/ 1 Unit

Course description

Principles of Accounting is a comprehensive one-year course which presents accounting theory and practice. It is designed to provide basic accounting skills to those who plan immediate entry into the workforce or to those who plan to pursue a college degree in the areas of business, finance, accounting or management. Principles and techniques of double-entry accounting are taught. The nine step accounting cycle is presented; i.e. journalizing and posting of business transactions, completion of the trial balance and worksheet, the preparation of financial statements, and the adjusting of closing entries. Career opportunities in accounting and related fields are also discussed. Accounting is the "language of business", and this skill-level course is of value to all students pursuing a strong background in business, marketing, and management.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10-12



College Accounting/Acc 121

1 Year/ 1 Unit

Course description

If you are thinking of pursuing a business degree in college, you should consider taking College Accounting in high school. It introduces students to the challenging and rewarding field of accounting and provides them with the opportunity to earn college credit. Students who register with The College of Saint Rose will earn 3 college credits upon successful completion of the course. General topics covered in this course revolve around corporate accounting and include the accounting cycle, internal controls, inventory, cash flows and analyzing financial statements. Accounting is one of the top majors and is a highly recruited career field.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10-12

† College Credit: College of Saint Rose (Acc 121) 3 Credits

† The College of St. Rose charges students who register for college credit. Approximate cost is \$130. Tuition assistance is available to those that qualify.

† Student may opt to take the course for only high school credit

College Principles of Marketing/Mktg 120

1 Year/ 1 Unit

Course description

College Principles of Marketing is an introduction to marketing and the role it plays in our world. Specialized areas such as advertising, personal selling, product development, physical distribution, pricing, marketing research, and international markets will be explored. This class is considered a foundation for all business classes, providing skills that can be applied in a variety of business and professional situations. College Principles of Marketing is an essential course for anyone interested in pursuing a career in business and marketing. This course can be taken for college credit through Hudson Valley Community College.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 11-12

College Credit: Hudson Valley Community College (Mktg 120) 3 credits– Approximate cost of registration is \$150.00. Tuition assistance is available to those that qualify.

College Personal Finance and Investment/Bus 205

1 year/ 1 unit

Course description

A vital course intended to help students understand the fundamentals of money management. Topics will include developing and managing personal financial resources, becoming familiar with financial institutions, consumer credit, college and career financial planning, the stock and bond markets, mutual funds, real estate, insurance, tax preparation, and successful financial planning for the future. Guest speakers from area banking, investment, real estate, and insurance companies will be invited to address current topics in their respective fields. Personal Finance and Investment is an essential course for anyone who will be managing money and investments in the future.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10-12

† College Credit: College of Saint Rose (Bus 205) 3 credits

† The College of St. Rose charges students who register for college credit. Approximate cost is \$130. Tuition assistance is available to those that qualify.

† Student may opt to take the course for only high school credit



Business and Personal Law (NCAA Core)

1 Semester/ .5 Unit

Course description

This course is intended to offer a core overview of Business and Personal Law. Topics to be covered will include, but are not limited to, foundation of law, contracts, civil law, criminal law, employment law, and entrepreneurial law.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10 -12

College Entrepreneurship/ENTR 110

1 Year/ 1 Unit

Course description

What does achieving the “American Dream” of owning and operating a business really involve? This course is designed to introduce the essentials of starting and effectively managing a successful business enterprise. Topics covered will emphasize the development of an effective business plan, the management of business resources, ownership options, and marketing strategies. In addition, franchises, home-based and online business opportunities that are “hot” for the 21st century will be explored.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 10 -12

College Credit: Hudson Valley Community College (ENTR 110) 3 credits – Approximate cost of registration is \$150.00. Tuition assistance is available to those that qualify.

Career Exploration Internship Program (CEIP)

1 Semester/ .5 Unit (Seniors only)

Course description

What is it like to be an accountant, doctor, graphic artist, auto mechanic or physical therapist? Why not find out before going to college or starting a career. The Career Exploration Internship Program (CEIP) is a non-paid internship experience that provides a link between school and career options. CEIP provides valuable hands-on experiences in a variety of career choices. Working alongside their mentors, students discover the varying aspects of a prospective career, while learning what specific skills and education are needed for success. By interning in the professional world, students gain an understanding of the importance of positive work ethics, timeliness, and good study habits. In addition, they will have an opportunity to improve teamwork and human relations skills. Career related topics such as resume writing, interviewing, teamwork, time-management and health & safety in the workplace are introduced during the classroom component of the program. Emphasis is placed on strengthening written and oral communication skills needed in the workplace.

Course Requirements/Recommendations

Students who plan to enroll in CEIP must meet the following criteria:

- MUST provide their own TRANSPORTATION to internship assignments.
- No more than five referrals for violation of the Shenendehowa High School Code of Conduct in their junior year. Appeals may be considered on an individual basis.
- No more than 20 absences and/or tardies from school in their junior year. Consideration may be granted to students with extenuating circumstances.
- Parents and students will sign a contract documenting their understanding of the course expectations.
- Complete a minimum of 54 hours at their internship placement(s) (Required by NY State).
- Complete an equivalent of 27 hours of coursework through classroom experience or online instruction (Required by NY State).
- Interns may choose one or two career fields to explore.



OPEN TO STUDENTS IN GRADE 12 ONLY

Career and Technical Education (CTE)

College and career options available to students of the 21st century are changing rapidly. More than ever before students will be expected to have exposure to many disciplines. CTE electives listed are designed for all students, regardless of their course work focus. They are designed to be engaging, relevant, and connected to real world workforce trends.

Family & Consumer Science (FACS) Department

Clothing and Housing Courses:

*Fashion, Clothing and Textiles	.5 Unit
*Housing and Interior Design	.5 Unit

Child Studies Pathway:

Child Psychology & Development and Creative Activities/Experiences for Children	1 Unit
**Child, Family & Personal Health	.5 Unit/(College Credit)
**Early Childhood Education Programs	1 Unit/(College Credit)
** Individuals with Exceptionalities	1 Unit/(College Credit)
**Seminar in Child Growth and Development; Theory and Practice Honors	1 Unit/(College Credit)

** Students enrolled in both Fashion, Clothing and Textiles and Housing and Interior Design may use these courses to meet the one unit art/music requirement*

*** Students in this course who are juniors or seniors may be eligible to receive college credit. See your school counselor for details regarding college credit agreements.*

Students NOT seeking a Career and Technical Education sequence in Child Studies may select courses as electives.

Regents Diploma with ADVANCED Designation:

A 5-unit pathway in Family and Consumer Sciences can substitute for the 3-unit LOTE requirement.

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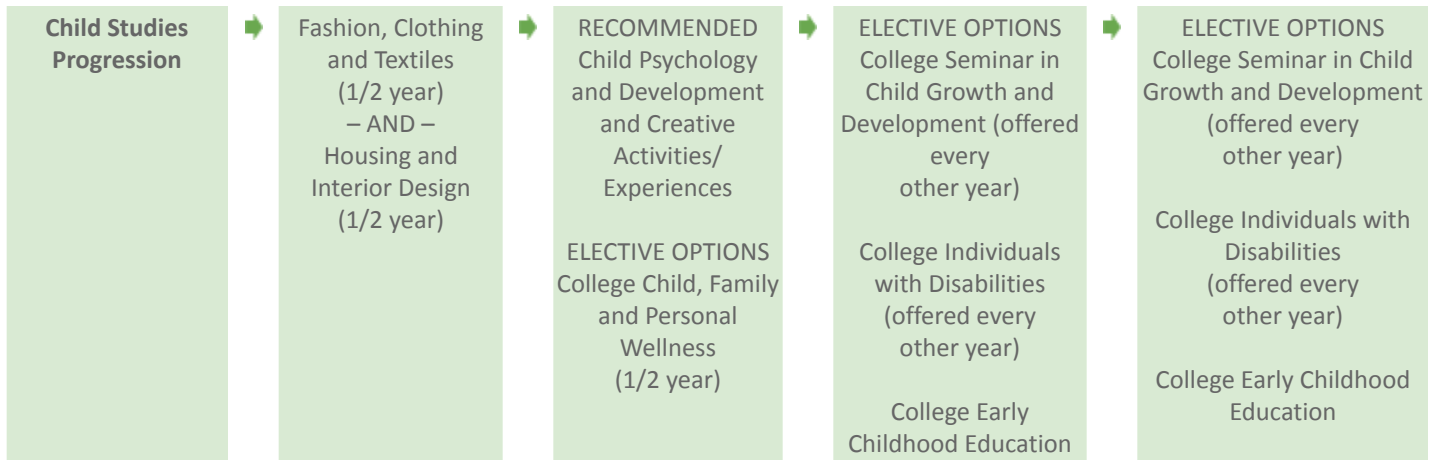


Typical FACS Progressions



Note:

- These progressions are typical progressions; however, students may customize their progression at any time.
- Fashion, Clothing and Textiles and Housing and Interior Design are only offered at High School West (grade 9). The courses, when taken together in the same year, may be used to fulfill the Art requirement.
- Students may take a five-unit FACS sequence for an Advanced Regents Diploma instead of a world language sequence.



Family and Consumer Science (FACS) Courses

Fashion, Clothing and Textiles

1 Semester .5 Unit

Course Description

In this course students investigate various aspects of fashion and the basics of clothing and textiles through hands-on projects. Topics include clothes and personal appearance, historical clothing styles, fashion fads and trends, principles and elements of design, fabrics, and careers. Individualized activities such as wardrobe evaluation, clothing construction by hand and machine and garment upcycling are included, plus consumer tips for purchasing clothes. Students will also practice appropriate dress for job interviews and various social situations. Anyone interested in a career in the clothing, textiles or fashion fields will find this course interesting and fun. Students who have a genuine interest in fashion and making the most of their current wardrobes will also enjoy this course.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADE: 9

*Any student may use Fashion, Clothing and Textiles plus Housing and Interior Design to fulfill the one unit Art/Music requirement.

Housing and Interior Design

1 Semester .5 Unit

Course Description

In this course students investigate housing styles and the basics of interior design and decorating through hands-on projects. Topics include historical architectural styles, selecting a home, the principles and elements of design: window, wall, and floor coverings,



furniture styles, floor plans, and careers. The highlight of the semester is the designing and decorating of your dream house. Students will find that much of the information learned can be applied to better organize, personalize and update their current living arrangement. Creative young people interested in careers such as interior decorating, interior design, real estate, and architecture will find this course especially enjoyable and worthwhile.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADE: 9

*Any student may use Fashion, Clothing and Textile Design plus Housing and Interior Design to fulfill the one unit Art/Music requirement.

*Students who want to learn more about housing design may be recommended for Architectural Design

Child Psychology & Development & Creative Activities/Experiences for Children

*1 Year 1 Unit**

Course Description

In the first semester of this course students take a close look at the child's growth and development from conception to school age. They will also explore major theorists, their models of child development, and parenting. Students will study and observe the physical, social, emotional and intellectual development of children through direct contact with children in school based observations. Experience with a "Baby Think It Over" infant simulator is a component of this class. In the second semester students will learn how to develop creative activities that promote self-expression and learn how play enhances children's growth at different stages of development. Exploring activities in art, music, literature, science, and nutrition will provide understanding of how to involve children in activities and make the experiences fun and educational. Students interested in pursuing a career in the education field will find this course particularly interesting. This course may be taken as an elective or part of the Child Studies sequence.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

* Priority given to students in grades 11-12.

College Child and Family Wellness

1 Semester .5 Unit

Course Description

In this course students will explore a variety of factors which influence health dynamics within the family. Prenatal development, the physical and emotional health needs of the infant and child, parenting, current nutritional concerns, chronic and communicable diseases. The effects of alcohol, tobacco and other drug substances are discussed and explored as they relate to all age groups. Students will also have the opportunity to apply nutritional principles through project based learning. In addition, students in this course will explore information regarding the skills and knowledge needed for entry into the workforce or for making career choices leading to postsecondary education and/or training in health service, human service or public service careers.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12, with preference given to juniors and seniors

College Credit: 3 College Credits are available through SUNY Cobleskill (ECHD 240). The fee to register is approximately \$150, with a reduced fee of \$75 for students who qualify for reduced price lunch and no tuition cost for students who qualify for free lunch. These credits may be transferred to other colleges. These credits may be transferred to other colleges.



College Early Childhood Education

*1 Year 1 Unit**

Course Description

This course is designed for students in 11th and 12th grade who are interested in a career working with children, especially teaching. Students will become familiar with writing lesson plans, classroom management techniques, communication methods, integration of the content areas and other teaching related topics. Each student is required to complete a field experience by student teaching in a Shenendehowa elementary classroom during the 3rd and 4th marking periods.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 11-12 ONLY

College Credit: 3 College credits are available to juniors & seniors through SUNY Cobleskill (ECHD 130). The fee to register is approximately \$150, with a reduced fee of \$75 for students who qualify for reduced price lunch and no tuition cost for students who qualify for free lunch. These credits may be transferred to other colleges.

Recommended: Child Psychology and Development and Creative Activities/Experiences for Children

College Individuals with Disabilities (formerly College Individuals with Exceptionalities)

1 Year 1 Unit – Offered 2025-2026

Course Description

This course is for juniors and seniors who have an interest in working with individuals with special needs. Students will be required to complete a minimum of 20 hours participating in independent field visits to local agencies or education settings that meet the needs of this population. Public policy, as it relates to individuals with special needs, will be examined. Attention will be given to agencies and organizations who service individuals with special needs and their families. Specific areas to be studied are hearing and vision impairments, speech/language, orthopedic, physical, emotional, intellectual and learning disabilities, as well as severe disabilities. Researching career opportunities in the special education field is also part of the course.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 11-12

College Credit: 3 College Credits are available to juniors and seniors through SUNY Cobleskill (ECHS 280). The fee to register is approximately \$150, with a reduced fee of \$75 for students who qualify for reduced price lunch and no tuition cost for students who qualify for free lunch. These credits may be transferred to other colleges. These credits may be transferred to other colleges.

Recommended: Child Psychology and Development and Creative Activities/Experiences for Children

College Seminar in Child Growth and Development: Theory and Practice

1 Year 1 Unit – Offered 2024-2025

Course Description

This course is an overview of normative child growth and development from conception through age 11. The course will focus on major theorists and their models of child development. Developmental areas will include: physical, cognitive, speech/language, perceptual and social/emotional. Practical application of theory will be related to observation skills, activities and curriculum, the role of the family, the role of the teacher, as well as issues in child development and parenting. A required twelve hour self placed independent observation of a child two- five years old is necessary to complete, "The Child Study" portion of this course. This course may be taken as an elective or part of the Child Studies sequence.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES 11-12

College Credit: 3 College Credits are available to juniors and seniors through SUNY Cobleskill (ECHD 170). The fee to register is approximately \$150, with a reduced fee of \$75 for students who qualify for reduced price lunch and no tuition cost for students who qualify for free lunch. These credits may be transferred to other colleges. These credits may be transferred to other colleges.

Free and reduced price tuition is available for those who qualify.



Healthcare Careers—Two half year coupled electives

Health Care Careers are in high demand. The field is growing and diversifying. The pair of Health Care Career courses cover a broad array of healthcare topics through engaging project based learning experiences. The two courses are designed to be taken in either order. Students will be most successful if these courses were taken after or concurrently with Living Environment/ Biology Regents.

CTE - Healthcare Careers Electives

Careers in Patient Care

A companion course to Health Science for Medical Careers
1 Semester .5 Unit

Course Description

This semester-long course focuses on patient and community healthcare: The legal and ethical principles of a healthcare worker, Understanding the patient as a person, Development of a robust community health plan, Planning for a disaster, and Epidemic disease. Students will be introduced to a variety of healthcare careers and engage in hands-on project based learning.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12 * Priority given to students having taken or concurrently taking Living Environment/Biology Regents. Due to its popularity, seniority may be considered.

Health Science for Medical Careers

A companion course to Health Science for Medical Careers
1 Semester 0.5 Unit

Course Description

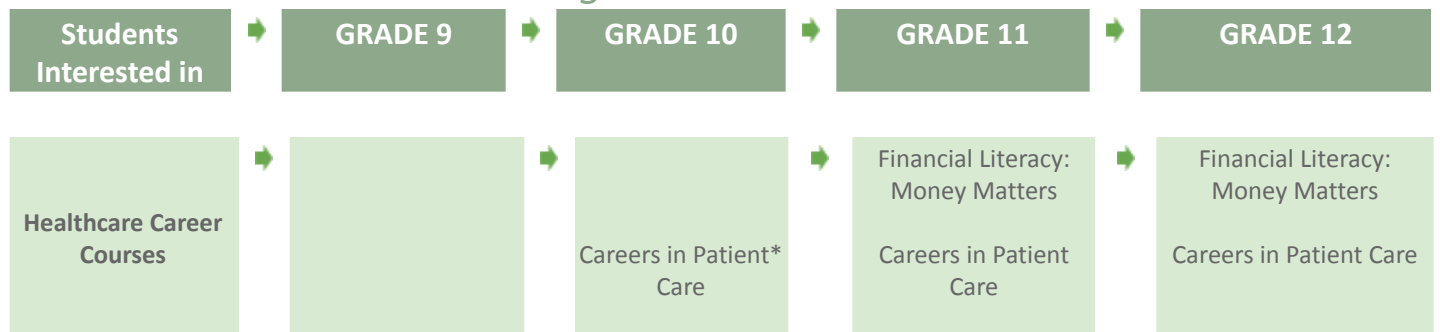
This semester course focuses on disease and the human body. Students will learn medical terminology, anatomy and physiology, Infection control, and other topics through hands-on project based learning experiences.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

* Priority given to students having taken or are concurrently taking Living Environment/Biology Regents. Due to its popularity, seniority may be considered.

Healthcare Career Course Progressions





Health Science for
Medical Careers*

Health Science for
Medical Careers

Health Science for
Medical Careers

Career and Technical Education (CTE)

Technology

Students enrolled in the High School Career and Technical Education Program may choose a 5 unit sequence as part of the requirements for a Regents Diploma with Advanced Designation. However students not wishing to pursue a CTE pathway may also take Technology Education courses as electives. Students pursuing a Regents Diploma with Advanced Designation may also elect to complete 5 units of Technology in place of the world language requirement.

There are two technology pathways to consider:

- Pre-Engineering – Design – Architecture
- Technical Trades Career Program

Additional considerations:

- Many college engineering programs recommend programming experience.
- The following pathways are recommended, however, students with the necessary prerequisites can change pathways.
- All students can take Technology electives and are not required to complete a 3 or 5 unit pathway.

New Technical Trades Progressions (Pending Approval of Shenendehowa Board of Education)

Students Interested in	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Automotive Systems	College DDE* Or DDP*	Transportation Systems	Automotive Systems Technology I or (Optional: EDD, Digital Electronics)	Automotive Systems Technology II or (Optional: EDD, Digital Electronics)
Construction Systems	College DDE* Or DDP*	Manufacturing Systems Architecture	Construction Systems I	Construction Systems II**

Notes:

- These progressions are typical progressions; however, students may customize their progression

*Satisfies graduation requirement for 1 Unit of Art or Music



CTE - Technology Department (continued)

Typical Pre-engineering Progressions

Students Interested in	Accelerated 8	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Mechanical	☐ College DDE*	☐ College CIM	☐ College POE	☐ College Digital Electronics & Java	☐ EDD (Optional: Automation & Robotics, AP Computer Science, Auto Tech Systems)
		College DDE*	College CIM		
Electrical/Computer Science	☐ College DDE*	☐ College CIM	☐ Java & Digital Electronics	☐ AP Computer Science	☐ EDD (Optional: Automation & Robotics)
		College DDE*	☐ College CIM	☐ College Digital Electronics & Java	☐ AP Comp. Sci (Optional: EDD, Automation & Robotics)
			Computer Science Discoveries	☐ Java/Mobile App Development	☐ AP Computer Science
Aerospace	☐ College DDE*	☐ College CIM	☐ College Digital Electronics	☐ Aerospace Engineering & College POE	☐ EDD (Optional: Automation & Robotics, Auto Tech Systems)
		College DDE*	☐ College CIM		
Civil Architecture	☐ College DDE*	☐ College CIM	☐ College Architectural Design	☐ College Digital Electronics & College POE	☐ EDD (Optional: Construction Systems Tech.)
		College DDE*	☐ College Architectural Design	☐ College POE & Art Elective	



College
Digital
Electronics

CTE - Technology Department (continued)

Technology Courses

College Drawing and Design for Engineering – DDE/PLTW 101

1 Year/1 Unit of Foundation Credit

Course description

A Project Lead The Way Curriculum - Design and Drawing for Engineering is the first course in the Pre-Engineering sequence. Students who are interested in engineering as a career should take this course. In DDE students are challenged to solve interesting design problems using a systematic design process. An emphasis is placed on communicating design ideas through drawings or graphical models. Students begin with sketches and continually refine their design ideas through sketching and ultimately resulting in a computer generated model. These models are created using powerful, state of the art CAD software. Students also use the 3-D solid modeling software to analyze their designs for function and structural integrity. This requires a basic understanding of material properties and fundamental mechanical design concepts. In addition to focusing on the design process, DDE also exposes students to various career opportunities in the field of engineering.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 9-12

Recommendation: Concurrent enrollment in Integrated Algebra/Integrated Algebra Honors. This course is suggested for honors level students. This course is not recommended for students concurrently enrolled in Algebra with Lab.

College credit is available to students who qualify through RIT (PLTW 101- Introduction to Engineering Design) (3 credits) (approximate cost \$225). This credit may be transferred to other colleges.*The fee is greatly reduced for students who qualify for the Federal Free and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch Program and the fee would present a financial hardship.

DDE meets the graduation requirement for one unit of art or music.

College Computer Integrated Manufacturing (CIM)/PLTW 104

1 Year/1 Unit

Course description

A Project Lead The Way Curriculum - This course is an introduction to modern manufacturing concepts that utilize cutting edge technologies. Here students build on the solid modeling skills developed in DDE by designing products to be manufactured using automated machine tools. Industrial robotics is also introduced, with students exploring why and how robots are applied in industry today. Students will program and configure a robotic arm to solve real manufacturing problems. In addition, computerized modeling kits (Vex Robotics) are used to build and program fully operational, scaled models of robots and other automated manufacturing equipment. The last section of the course explores the concept of Computer Integrated Manufacturing (CIM) which combines marketing, design, manufacturing and sales into a fully integrated and computerized system.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 9-12

Requirement: College Drawing and Design for Engineering (DDE) or DDP.

College credit is available to students who qualify through RIT (PLTW 105) (3 credits) (approximate cost \$225). This credit may be transferred to other colleges.*The fee is greatly reduced for students who qualify for the Federal Free and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch Program and the fee would present a financial hardship.



CTE - Technology Department (continued)

College Principles of Engineering/PLTW 102

1 Year/1 Unit

Course description

A Project Lead The Way Curriculum- Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in postsecondary education programs and engineering careers. Students will explore various engineering systems and manufacturing processes while gaining an understanding of how engineers address the social and political consequences of technological change. Through hands-on projects and relevant instruction students will gain a good understanding of what a career in Engineering is truly like.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

Requirement: College Drawing and Design for Engineering (DDE) and College Computer Integrated Manufacturing (CIM), Successful completion of Algebra program and concurrent enrollment in Geometry or higher. Students should have a strong understanding of math concepts.

College credit is available to students who qualify through RIT (PLTW 102) (3 credits) (approximate cost \$225). This credit may be transferred to other colleges.*The fee is greatly reduced for students who qualify for the Federal Free and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch Program and the fee would present a financial hardship.

College Digital Electronics/PLTW 103

1 Year/1 Unit

Course description

A Project Lead The Way Curriculum - This is a course in applied digital logic. It is patterned after the first semester course in Digital Electronics taught in two and four year colleges. Students will study the application of electronic logic circuits and devices and apply Boolean logic to the solution of problems. Such circuits are found in watches, calculators, video games, computers and thousands of other devices. The use of smart circuits is present in virtually all aspects of our lives and its use is increasing rapidly, making digital electronics an important course of study for a student exploring a career in engineering/engineering technology. Using MultiSim, or other simulation programs, students will test and analyze simple and complex digital circuitry. A capstone project for the course is the design of a printed circuit board and construction of a battery powered digital device.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

Requirement: completion of/or enrollment in Integrated Algebra/Integrated Algebra Honors.

College credit is available to students who qualify through RIT (PLTW 103) (3 credits) (approx. \$225). This credit may be transferred to other colleges.*The fee is greatly reduced for students who qualify for the Federal Free and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch Program and the fee would present a financial hardship.

Engineering Design

1 Year/1 Unit

Course description

A Project Lead The Way Curriculum- This applied research and design course requires students to formulate the solution to open-ended engineering questions, and explore advanced methods in design, problem solving and prototyping. Class activities



will implement the engineering design process through advanced 3-D CAD models, and physical modeling techniques that use CNC and laser fabrication methods. The class instructor acts as a mentor as students apply the skills gained in their previous courses. Strong emphasis is placed on written reports to document their applications, which will be presented to a panel of outside reviewers at the end of the school year.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADE: 12

Requirement: College Drawing and Design for Engineering (DDE) or Design and Drawing for Production (DDP), and a minimum of three units of Technology.

Drawing and Design for Production – DDP

1 Year/1 Unit of Foundation Credit

Course description

Design and Drawing for Production (DDP) is a springboard course to a number of trades and technology courses offered in grades 10–12. These courses include Architecture, Manufacturing, College Computer Integrated Manufacturing, and Transportation. The DDP curriculum includes basic technical drawing and design skills, including computer aided design. DDP emphasizes hands-on fabrication skills as students learn to precisely manufacture projects by reading and interpreting technical drawings. Students will practice measurement, scaling, workshop safety, and product creation. Students will be exposed to a variety of career opportunities and the progression of technology courses offered at Shen that lead to those in-demand careers. This course satisfies the graduation requirement of one unit of art or music.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADE: 9

Recommendation: Concurrent enrollment in Integrated Algebra with lab or higher.

This course meets the graduation requirement for one unit of art or music.

Automation and Robotics – HONORS

1 Year/1 Unit

Course description

This course applies the competencies developed in the courses of CAD, Principles of Engineering, and Digital Electronics. Students learn the industrial applications of electromechanical technology as it relates to automation and robotics. A state of the art Computer Numeric Control (CNC) machining center and robotic parts handling system enables students to learn about automation and Flexible Manufacturing Systems (FMS) concepts. Machine control language for cutter tool path programming is taught along with automatic tool path generation using AutoDesk Inventor and MasterCAM on a Local Area Network (LAN). The course also includes the planning and implementation of an automated manufacturing cell.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 11-12

Requirement: College DDE and College Principles of Engineering.

Computer Science Discoveries

1 Year/1 Unit

Course description

A Code.org introductory computer science course designed to be accessible and engaging for all students. Regardless of background or prior experience, students will be introduced to a wide variety of topics related to CS. This class will provide students opportunities to engage with culturally and personally relevant topics in a wide variety of CS related fields. CS Discoveries will focus on the basic CS topics like the design process, problem solving, and data and society. Projects will be centered around web development, creating animations, designing games, and physical computing. Many projects will be completed using peer programming.



Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

Students should feel comfortable in their ability to use Algebra to solve computational problems.

Mobile Device Application Development

½ Year/ ½ Unit

Course description

Students will develop a series of functional mobile apps using Android devices and the MIT Mobile App developer. This course is structured similarly to workforce professional development courses. Students will work through a series of projects at their own pace. As projects are completed, they will be shared with the other students in the class for feedback. Students may use the MIT App developer for their projects for the entire 20 weeks, or may branch out and use mobile app developer code following Code Academy tutorials. Student projects may be entered in mobile app development competitions.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

There are no prerequisites

Java

1 Semester/.5 Unit

Course description

Java is an introductory semester long course in which students develop fundamental skills in the Java programming language. Students will learn to design and implement their own programs using Java commands. The Java programming language is object oriented and primarily geared toward developing internet based applications. Topics such as looping, developing classes and simple games are covered in this course. Students will develop several small programs that will culminate in a final project.

Course Requirements/Recommendations

This course is a prerequisite for the Advanced Placement Computer Science Course.

OPEN TO STUDENTS IN GRADES: 10-12

Requirement: Successful completion of Algebra

Computer Science Principles

1 Year/1 Unit of Foundation Credit

Course description

Whether it's 3-D animation, engineering, music, app development, medicine, visual design, robotics, or political analysis, computers play an innovative role in careers, the economy, and our culture. Exposure to computer science is becoming increasingly important for students' success in the workforce of tomorrow.

Computer Science Principles explores foundational ideas of computing and how these concepts are transforming our world. This engaging course, while rigorous, is designed to be accessible by a broad profile of students.

Unlike AP Computer Science A which launches quickly into hard coding, Computer Science Principles covers a broad range of cutting edge topics such as cloud computing, cybersecurity, data science and data analytics. Emphasis is given to developing a deep understanding of the logic of coding such as algorithms, strings, loops, and arrays. Students will be introduced to Javascript, a scripting language used all over the internet. Students apply their coding skills to creatively solve relevant problems of their choice.

*Students in this course may optionally choose to take the AP exam associated with this course. The exam is unlike other AP exams. There is a performance task component in which all students will explore and solve a problem of their choice using code. The AP Exam in Computer Science is approximately \$95. The fee is greatly reduced for students who qualify for the Federal Free



and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch Program and the fee would present a financial hardship.

**It is recommended that students complete Algebra I prior to taking this course

Advanced Placement Computer Science

1 Year/1 Unit

Course description

Advanced Placement Computer Science builds upon the programming skills developed in Java. Students will explore more advanced topics in computer science including stacks, lists, binary trees, recursion and object oriented programming. Students are exposed to some of the historical events of the computer industry as well as some of the ethical dilemmas. Participation in a small group project as well as individual programming assignments will be assigned. Students scheduled for this course are expected to commit themselves to consistent, rigorous study throughout the year.

Course Requirements/Recommendations

- All students enrolled in this course are expected to register for and complete the AP exam in May. Credit may be earned at various colleges, contingent upon the student's exam score. The AP Exam in Computer Science is approximately \$95. *The fee is greatly reduced for students who qualify for the Federal Free and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch Program and the fee would present a financial hardship.
- OPEN TO STUDENTS IN GRADES: 11-12
- Requirement: Successful completion of Java and concurrent enrollment in Algebra 2 and Trigonometry.
- Recommendation: 90% or better average in Java.

College Architectural Design (CNST 120)

1 Year/1 Unit

Course description

An advanced design course covering concepts in architectural design. Students are required to develop and apply creative problem solving techniques while addressing relevant architectural and structural design problems. In this class students develop plans and construct models for solutions to residential design problems. Students develop their designs using Computer Aided Design software and 3D models. Course topics include: history of architecture, drafting and illustration techniques, energy systems in buildings, modeling and presentation techniques, architectural research and resources. Architectural design is recommended for students pursuing studies in architecture, design, interior design, civil engineering, and landscape architecture.

Course Requirements/Recommendations

- OPEN TO STUDENTS IN GRADES: 10-12
- Requirement: College Drawing and Design for Engineering (DDE) or Design and Drawing for Production (DDP) or Housing and Interior Design
- College Credit: Hudson Valley Community College (CNST 120) (3 credits)– Approximate cost of registration is \$150.00. Tuition assistance is available to those that qualify.

Aerospace Engineering

1 year/1 Unit

Course description

A Project Lead The Way Curriculum - Aerospace Engineering is a one unit elective in the Pre-Engineering Pathway. This course introduces students to the fundamentals of atmospheric and space flight. Students explore the physics of flight, while bringing the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. Students also examine the application of robotics in the field of Aerospace Engineering through projects such as remotely operated vehicles.



Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 11-12

Requirement: College Drawing and Design for Engineering (DDE) or Design and Drawing for Production (DDP)

Manufacturing Systems

1 Year/1 Unit

Course description

Manufacturing Systems is a hands-on course which applies the design process to woodworking, plastics, metals and alternative energy sources. Topics will include lab orientation, safety, reading drawings, machine operations, computer applications, hand tools, woodworking, manufacturing and residential structures. Students will work individually as well as part of a team to produce custom projects. Students will explore the processes that a product goes through as it evolves from concept through design, production and final product.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

Requirement: DDP - can be taken concurrently with AA approval

A Prerequisite for Construction 1

Transportation Systems

1 Year/1 Unit

Course description

This is a hands-on, entry level, exploratory course for students who would like to experience the practical uses of both hand and power tools as they apply to a small engine/auto repair facility. The course is generally 1/3 theory and 2/3 applied hands-on lab activities. The Transportation Systems course covers three distinct areas of transportation: land - air - water. Students research and create projects related to each of the three topics. For instance, while learning about air transportation, students might apply aerodynamic principles while designing and building a working glider. In the land transportation unit, students learn about gasoline engines by disassembling a small engine and rebuilding it to specifications. While rebuilding the gasoline engine, students discover how the different systems work together to power the engine. Further topics include lab orientation, safety, machine operations, computer applications, hand tools, metal working, automotive work, and career exploration. This is a prerequisite for the Automotive Technology Systems course.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

Construction Technology Systems I

1 Year/2 Units

Course description

Construction Tech Systems I meets every day for a full block. Students construct a 1,200 square foot modular home situated behind High School East. Through hands-on learning, students develop practical skills useful to homeowners as well as those pursuing a career in construction, architecture or other building related fields. The course topics include safety, building materials, estimating, design and installation of basic electrical/plumbing systems, blueprint interpretation, rough carpentry, building code requirements and the methods of constructing buildings.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 11-12

Requirement: Successfully completed Manufacturing Systems or Architecture

Shenendehowa High School
PROGRAM OF STUDIES





Transportation Systems

1 Year/1 Unit

Course description

This is a hands-on, entry level, exploratory course for students who would like to experience the practical uses of both hand and power tools as they apply to a small engine/auto repair facility. The course is generally 1/3 theory and 2/3 applied hands-on lab activities. The Transportation Systems course covers three distinct areas of transportation: land - air - water. Students research and create projects related to each of the three topics. For instance, while learning about air transportation, students might apply aerodynamic principles while designing and building a working glider. In the land transportation unit, students learn about gasoline engines by disassembling a small engine and rebuilding it to specifications. While rebuilding the gasoline engine, students discover how the different systems work together to power the engine. Further topics include lab orientation, safety, machine operations, computer applications, hand tools, metal working, automotive work, and career exploration. This is a prerequisite for the Automotive Technology Systems course.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 10-12

Construction Technology Systems I

1 Year/2 Units

Course description

Construction Tech Systems I meets every day for a full block. Students construct a 1,200 square foot modular home situated behind High School East. Through hands-on learning, students develop practical skills useful to homeowners as well as those pursuing a career in construction, architecture or other building related fields. The course topics include safety, building materials, estimating, design and installation of basic electrical/plumbing systems, blueprint interpretation, rough carpentry, building code requirements and the methods of constructing buildings.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 11-12

Requirement: Successfully completed Manufacturing Systems **or** Architecture

Construction Technology Systems II

1 Year/2 Units

Course description

This capstone course is a continuation of Construction Technology Systems I. It meets for a full block every day. Students construct a 1,200 square foot modular home situated behind High School East. Students will build on the skills learned in construction I, going deeper and gaining new skills in job site and construction management.

An emphasis of Construction II includes the attainment of industry recognized credentials and job site internships.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADE 12

Requirement: Successfully completed Construction I



Automotive Technology Systems I

1 Year/2 Units

Course description

Automotive Technology Systems I meets every day for a full block. This technology preparation course has been developed through the combined efforts of instructors at Hudson Valley Community College and Shenendehowa High School. The main objective of this course is to provide students with a foundation of basic technical skills necessary for students entering a community college or trade school. Technical skills to be emphasized will include Automotive shop safety practices, use of hand tools and automotive related equipment, and accessing industry information.. These areas will be addressed by actual “Live Work” on customer owned cars and trucks. Daily live work consists of basic automotive engine service, tire service, brake service, steering/suspension service, and NYS Inspections. The course is generally 1/3 theory and 2/3 applied hands-on lab activities. New York State Education Department, Bureau of Technology Education modules covered include: transportation systems, automotive technology, computer applications, electricity, and energy applications. This course is articulated with the HVCC AUTO 145 - Passenger Car Chassis I. Successful completion (70% or better) of this course and passing the final exam will earn the student 3 HVCC credits. Tuition assistance is available to those that qualify.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 11-12

Requirement: Successfully completed Transportation Systems

Automotive Technology Systems II

1 Year/2 Units

Course description

Automotive Technology Systems II meets every day for a full block. It is our capstone technology course that builds on the skills learned in Auto Tech Systems I. In addition to practicing the servicing skills learned in Auto Tech I, students will be more fully immersed in topics like: engine disassembly and assembly techniques, precision measurement, diagnostic wheel and tire service, automotive engine service, automotive powertrain diagnostics, automotive electronics, and steering alignment. Students will also be given the opportunity to earn several industry certifications that would be helpful in career placement.

An emphasis of this class will be industry partner internships, providing students the opportunity to gain experience in a working automotive repair shop or dealership service department.

Course Requirements/Recommendations

OPEN TO STUDENTS IN GRADES: 12

Requirement: Successfully completed Automotive Technology Systems I



English Department

The high school English curriculum is designed to help students develop the literacy skills needed for success in college and career. Students are required to successfully complete four units of credit and pass the NYS English Regents exam to graduate with a Regents diploma.

Grade 9

- English 9
- English 9 Honors
- Reading

Grade 10

- English 10
- English 10 Honors
- World Literature and Culture Honors

Grade 11

- English 11
- American Stories Honors
- English 11 Honors
- AP English Language and Composition

Grade 12 (Full Year):

- English 12
- Masterpieces of Drama and Musical Theater
- Journalism*
- 21st Century World Literature
- Modernism Honors*
- AP English Literature OR AP English Language and Composition

Grade 12 (Half Year):

- Pre-College Writing*
- Language of the Media
- Speech and Public Speaking*
- Literature of the Future - Science Fiction

*College credit is available



English Department (continued)

Typical English Progressions



*College credit is available



English Department (continued)

English Courses

Ninth Grade

English 9 (NCAA Core)

1 Year/1 Unit

Course Description

The emphasis in this course is on the skills of reading, vocabulary development and writing. The literature is taught by genre: novel, short story, poetry and drama (Shakespeare). Because of the importance of writing, and the requirement that all ninth grade students pass the English Regents exam when they reach eleventh grade, the English 9 program places greater emphasis on the development of longer essays and the research process.

Course Requirements

Students are required to complete the English 9 summative assessment in the spring.

English 9 – Honors (NCAA Core)

1 Year/1 Unit

Course Description

The purpose of this course is to offer the student gifted in English an opportunity for enriched work with short stories, novels, drama and poetry. The accent is on themes and relationships; the emphasis is on excellence of thought and expression. The genre of literary criticism will be introduced and explored. Because of the importance of writing, and the requirement that all ninth grade students pass the English Regents exam when they reach eleventh grade, the English 9H program places greater emphasis on the development of longer essays, independent research and creative writing. Students can expect to participate in class discussions and study vocabulary regularly.

Course Requirements

Students complete the English 9H summative assessment in the spring

Reading

1 Year/1 Unit - *Offered in grade 9 only

Course Description

This academic support class focuses on enhancing essential reading skills including fluency, stamina, comprehension, structure, reasoning and vocabulary. It contributes to the development of strong reading and literacy skills, resulting in greater success in all high school courses. Students receive instruction, feedback and practice in small groups. Reading is scheduled in addition to English 9, the required grade-level English course. Students earn one unit of graduation credit upon successful completion of Reading.



Tenth Grade

English 10 (NCAA Core)

1 Year/1 Unit

Course Description

This course, taken by most tenth grade students, includes a survey of the major literary genres (novel, essay, short story, drama, poetry), nonfiction and specific instruction in persuasive, expository, literary and narrative writing. In addition, instruction is provided in vocabulary, conventions of standard written English, oral expression, and research skills.

Course Requirements

Students complete the English 10 summative assessment in the spring.

English 10 – Honors (NCAA Core)

1 Year/1 Unit

Course Description

As an honors-level course, the expectation for student leadership and participation in class discussion is high. Students study various works of fiction, nonfiction, poetry and film to engage in close reading for deeper meaning and demonstrate the ability to analyze texts at a sophisticated level. Students apply scholarly and analytical works to course texts, a new and challenging skill. Students develop their writing skills through argument writing, research-based writing, and literary analysis.

Course Requirements

Students complete a quarterly project that focuses on specific writing, speaking and analytical skills.

World Culture and Literature – Honors (NCAA Core)

1 Year/1 Unit

Course Description

World Literature-Honors is part of an interdisciplinary course with World Culture-Honors. In these humanities courses, students learn about the connections between art and architecture, literature and historical events in global history. The works of 18th-20th century writers, artists and architects are studied. Students develop their analytic and communication skills in this course, through a variety of writing assignments, research-based activities, and a major oral presentation.

Course Requirement

Students complete a final project which is worth 20% of the final course grade.

Recommendation: Positive recommendations from the English 9/9H and Global /9H teachers; a minimum of an 85% average in both English 9 and Global History and Geography 9 is highly recommended.



English Department (continued)

Eleventh Grade

All eleventh-grade English courses seek to develop students who are critical thinkers, capable readers, confident writers and effective communicators. The curriculum supports college readiness with a focus on the language and behaviors of academic discourse. All courses prepare students for the NYS English Regents exam in the spring of junior year.

English 11 (NCAA Core)

1 Year/1 Unit

Course Description

English 11 encourages the rich learning that results in the college and career readiness envisioned by the Common Core. Throughout English 11, students will develop strong literacy skills in the areas of reading, writing, listening, speaking and thinking. Students read and analyze fiction and nonfiction texts that reflect essential themes in American literature. They write in a variety of genres: persuasive, expository, literary and narrative. Skill development is enhanced through a focus on such skills as reading closely, making evidence-based claims about an issue/topic, making evidence-based claims about literature and literary techniques, researching to deepen understanding and writing from sources. A rigorous instructional focus, and classwork aligned to grade-eleven ELA standards, will result in the analytical and inferential skills needed to achieve proficiency on the English Regents exam.

Course Requirements

Students are required to take the English Regents exam in June; it will count as 10% of the final course grade.

American Stories Honors- Literature (NCAA Core)

1 Year/1 Unit

Course Description

There is no one American story. The meaning of America, and what it means to be American, has evolved over time, and is experienced differently by Americans depending on their perspectives. American Stories Honors integrates the disciplines of English and Social Studies to investigate the eras of American history through the lenses of the diverse groups of people who experienced them. Students analyze the documents, literature, film and artwork of the time periods being studied to more deeply understand the complexities of the nation's past. Connections between historical national issues and contemporary challenges are regularly explored. Another unique facet of the course is a long term inquiry project on a topic of the students' choice in which they use research, critical thinking, writing, and creative expression to demonstrate their learning.

Course Requirements/Recommendations

Students are required to take both the English and U.S. History and Government Regents examinations in June. The English Regents exam will count as 10% of the final course grade in American Stories Honors - Literature.

English 11 Honors (NCAA Core)

1 Year/1 Unit

Course Description

Students examine a variety of texts through the lens of quarterly thematic units. Each unit ends with a quarterly project. Students read and analyze fiction, nonfiction and poetry in order to explore classic themes, structure, technique and language use. Students write in various forms -- creative, analytical, research-based, and narrative. Students will engage in collaborative presentations, student-led discussions, and creative projects. As an honors-level course, the expectation for student leadership and participation in class discussion is high.



Course Requirements

Students are required to take the English Regents exam in June; it will count as 10% of the final course grade.

Advanced Placement English Language and Composition (NCAA Core)

1 Year/1 Unit

Course Description

AP Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Through writing and reading, students develop awareness of the interactions among a writer's purposes, audience expectations and subjects - as well as the way genre conventions and the resources of language contribute to effectiveness in writing. As a college-level course, learning expectations are challenging, often involving long-term writing and reading assignments and opportunities for academic discussion.

Course Requirements

All students enrolled in this course are expected to register for and complete the AP exam in May at a cost of \$98, which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program.

Twelfth Grade - Full-Year Courses

Emphasis in the senior year is on student choice of courses which focus on reading, writing, listening, and speaking. All students in a senior English course will receive instruction in the college essay during the fall semester.

English 12 (NCAA Core)

1 year/1 unit

Course Description

English 12 is designed to prepare students to become capable and confident thinkers, readers and writers. In English 12, students practice and enhance the literacy and communication skills developed during previous English courses. Key topics of study revolve around relevant issues and contemporary literature. Reading and writing assignments allow students to exercise choice through a variety of print and digital mediums, with a focus on real-life application. Course goals include developing critical thinkers who are self-directed, motivated and mature learners. Students will complete the year with the skills and abilities needed to navigate through the world as literate young adults.

Course Requirements

Students give a final presentation as a summative assessment in the spring.

Masterpieces of Drama and Musical Theater (NCAA Core)

1 year/1 unit

Course Description

This course is intended for students interested in drama, music, literature and history or for those who enjoy theater as a pastime. Students will be led through a survey of each period in theater history. Among the plays studied will be Oedipus Rex, Everyman, Shakespeare Lit Circles, Tartuffe, Cyrano de Bergerac and Modern Drama Lit Circles. Among the musicals studied will be Oklahoma!, My Fair Lady, West Side Story, Cabaret, A Chorus Line, The Phantom of the Opera, and Rent. The emphasis is on the arts as literature, rather than performance. Students will, however, have opportunities to attend live performances of plays and musicals. Class participation is essential!



Course Requirements

Students complete the Masterpieces of Drama summative assessment in the spring.

21st Century World Literature (NCAA Core)

1 Year/1 Unit

Course Description

Students study various cultures through the works of contemporary world acclaimed writers. Students read and analyze works by Asian, African, South American, and Middle Eastern writers. Students can expect to participate in active discussion about the readings, which focus on universal topics such as dignity, love, values, beliefs, war, peace, youth, redemption, and forgiveness. Students will complete a research project in addition to writing analytical and creative compositions. The course also includes an examination of recent documentaries and articles relating to major world issues.

Course Requirements

Students complete the 21st Century World Literature summative assessment in the spring.

Journalism (NCAA Core)

1 Year/1 Unit

Course Description

Journalism is updated annually to reflect changes in the profession and to integrate the use of technology currently used in the field. The class utilizes an experimental “newsroom” environment and students engage in hands-on, project-based learning, Skype interviewing, investigation and writing. Students earn press passes which allow them to use class time to interview, photograph and/or videotape in order to develop projects. Students study journalism as a form of written expression, a visual medium (through photography and videography) and as a unique literary genre. Units include: basics of news writing, news values, the news-gathering process, interviewing, First Amendment rights, student press rights, communication law, ethics, online publishing, convergence, broadcast and blogging. Students explore the differences between trained journalistic experiences and the emerging facets of citizen journalism. The literary component of the course covers the impact of journalism on our cultural and historical heritage. Students in the course publish their work in the student newspaper and online. ****Three college credits may be obtained through HVCC ENG 130 by successful completion of this course at a cost of approximately \$210. Tuition may be further reduced for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the general education requirement at all 64 SUNY and 25 CUNY schools, as well as many other institutions.***

Course Requirements

Students complete a final project in the spring.

Modernism – Honors (NCAA Core)

1 Year/1 Unit

Course Description

Modernism focuses on the literary and cultural movements of modernism and postmodernism. To establish a context for these movements and demonstrate the literary and social conventions that the Moderns challenged, the year begins with an overview of Victorian history and literature. Students then read and study a wide variety of novels by authors such as Conrad, Joyce, Woolf, Hemingway, McCullers, Ellison, Kerouac, Morrison, and/or O’Brien as well as short stories and poems by a wide range of modernist and postmodernist authors. In addition to studying these primary texts, students will enhance their cultural literacy by reading supplementary texts, including historical documents, biographical essays, literary criticism, and other works to enrich their experience and understanding. Because of the nature of modern and postmodern literature, which often consciously pushes boundaries and questions the status quo, students should be prepared to read and respectfully investigate ideas that may expand and challenge perspectives.



This course encourages students to become self-sufficient learners as they prepare for college. There is a strong emphasis on recognizing, analyzing, and evaluating arguments—and the rhetorical strategies used to make them—in a wide variety of different texts, including novels, poems, essays, films, works of art, and even advertisements. Students develop skills in crafting their own arguments in discussions, essays, and research projects in response to a diverse range of perspectives and materials. In examining the analysis of published writers who write in a variety of styles for a range of purposes, students learn to break free from formulaic modes as they explore alternate possibilities for expressing their own complex interactions with texts. This course encourages and rewards active participation in daily class discussions as well as seminar discussions which are the culmination of multi-week, student-driven research projects. Because of the interdisciplinary approach of Modernism, which situates literature in a historical and cultural context, this course serves as excellent preparation not only for college English, but for many courses in the humanities, social sciences, and beyond. Modernism H is a challenging—but highly rewarding—class. ****Three college credits may be obtained through UAlbany AENG 106 by successful completion of this course at a cost of approximately \$190. Tuition may be further reduced for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the general education requirement at all 64 SUNY and 25 CUNY schools, as well as many other institutions.***

Course Requirements

Students complete the Modernism summative assessment in the spring.

Advanced Placement English Literature and Composition (NCAA Core)

1 Year/1 Unit

Course Description

This college-level class is intended for students who wish to study in depth some of the greatest ancient and modern European, English and American literature, and who are willing to assume much of the responsibility for their own learning. The basis of the course is the seminar which, while led by the instructor at the outset, is led ultimately by students. Students write longer essays on literary themes, shorter essays of literary analysis and explication and a literary research paper, in addition to participating in seminar discussions.

Course Requirements

All students enrolled in this course are expected to register for and complete the AP exam in May at a cost of \$98, which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program.

Twelfth Grade - Half-Year Courses

Pre-College Writing (NCAA Core)

1 Semester/.5 Unit

Course Description

This course focuses on many of the genres of writing common in a college freshman writing course: argument, informational, literary and narrative. It includes inquiry, building independence as a writer (i.e., exploration, topic generation, writing routines/practices and following style guides), reading “as a writer,” work with mentor texts, study of author styles, self-reflection on process, setting personal writing goals and self-assessment of skills. Students can expect to write up to eight pieces with emphasis on good sentence structure, cohesive organization, revision and editing. A research paper develops skills of focus/topic selection, use of scholarly sources, clear argument development, style, paragraphing and paraphrasing/use of quotes to avoid plagiarism. ****Three college credits may be obtained through HVCC ENG 101 by successful completion of this course at a cost of approximately \$210. Tuition may be further reduced for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the general education requirement at all 64 SUNY and 25 CUNY schools, as well as many other institutions.***

Course Requirements

Students complete the Pre-College Writing summative assessment at the end of the semester.



Language of the Media (NCAA Core)

1 Semester/.5 Unit

Course Description

This course is designed for students to analyze and interpret the major forms of mass media: print, video, audio, and social media. Students will explore the philosophical, social, and psychological impacts of media consumption.

Course Requirements

Students create a portfolio and comprehensive reflection as a summative assessment at the end of the semester.

Speech and Public Speaking (NCAA Core)

1 Semester/.5 Unit

Course Description

This course is designed for students who have a sincere desire to improve basic speaking skills in both formal and informal situations. Students will develop poise and self-confidence by improving their ability to communicate effectively. Among the formal speeches are those of introduction, persuasion, information, personal experience, and demonstration. Although the emphasis is on speech, students are also expected to prepare written outlines, write critiques and use library research skills. Daily class participation is vital to success in this course. ****Three college credits may be obtained through HVCC ENG 125 by successful completion of this course at a cost of approximately \$210. Tuition may be further reduced for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the general education requirement at all 64 SUNY and 25 CUNY schools, as well as many other institutions.***

Course Requirements

Students give a final speech as a summative assessment at the end of the semester.

Literature of the Future – Science Fiction (NCAA Core)

1 Semester/.5 UNIT

Course Description

The course provides students with the opportunity to look at a brief history of the future as portrayed in science fiction literature, film and television. Students will examine how science fiction has impacted popular culture and affected social change, and how major historical/cultural events of the past century have influenced science fiction (i.e. the Cold War, the advent of computers, the invention of the cell phone, etc.). Students will also analyze how science fiction has influenced the technologies of today and tomorrow, and how these technologies have impacted our lives.

Course Requirements

Students complete the Literature of the Future summative assessment at the end of the semester.

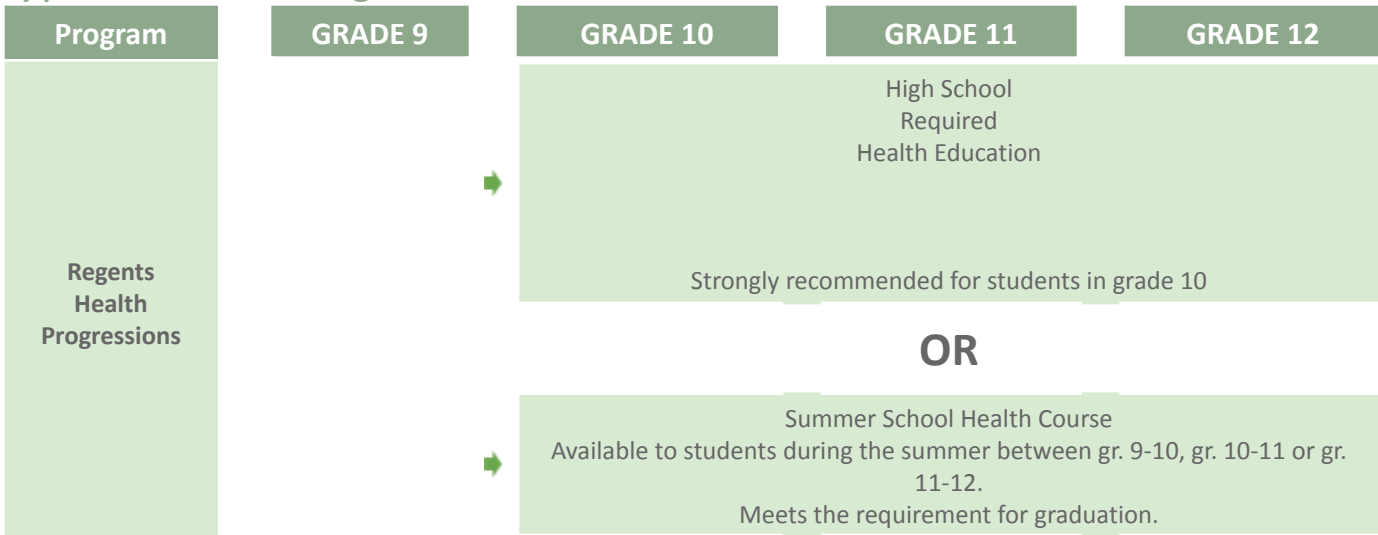


Health Education Department

Health Education Requirement

One semester of Health Education is required of all students
.5 Unit Required for Graduation

Typical Health Progression





Health Education Courses

Health

.5 Unit

Course Description

Traditional Fall & Traditional Summer School Health Option: Health is a mandated New York State course required of all students for graduation. Health Education is designed to help students gain the 21st Century skills necessary to remain safe and healthy throughout their lives. By implementing relevant connections to the Common Core, New York State and national standards, students are challenged by common assessments in the context of realistic health related situations that are relevant to adolescents. Students will experience skill building in Communication, Relationship Management, Decision Making, Planning and Goal Setting, Stress Management, Advocacy, and Self Management, and CPR/AED which includes instruction on mental health and well-being. Some of the elements of mental health literacy include: awareness and recognition, treatment and recovery, services and supports, including a focus on self-help strategies for one's mental health wellness. Students will have the opportunity to apply these skills to practical issues in content areas including:

- Alcohol and other drugs
- Family life/Sexual Health
- Parenting
- HIV/AIDS
- Sexual Risk
- Physical Activity & Nutrition
- Nicotine
- Unintentional Injury Prevention
- Violence Prevention

Course Requirements

Upon completion of this course, a comprehensive final exam will be administered during Regents Week. The final is 20% of the student's grade.

Summer School Health

.5 Unit

Course Description

- This is a hybrid of a traditional and online Health program and will follow the same curriculum as the Health class offered during the school year.

Course Requirements

- It is highly recommended that if a student knows they will be missing more than one class, that they should not elect to take this program. It is a 20 week course that will be condensed into a 6 week course.



Mathematics Department

REQUIREMENTS

Regents Diploma

3 units of math plus a grade of at least 65% on at least one math Regents examination.

Advanced Regents Diploma

3 units of math and a grade of at least 65% on the Algebra I, Geometry, and Algebra II examinations is one component of making a student eligible for an Advanced Regents Diploma. Preparation for these exams can be accomplished by selecting one of the following progressions: (These are examples of possible pathways.)

- Algebra I
- Geometry
- Algebra II

OR

- Algebra I w/Lab
- Geometry w/Lab
- Algebra II w/Lab

OR

- Algebra I w/Lab
- Geometry w/Lab
- Intermediate Algebra-HVCC 110
- Algebra II w/Lab

Standards

The high school math standards

- 1) call on students to practice applying mathematical ways of thinking to real world issues and challenges; they prepare students to think and reason mathematically.
- 2) set a rigorous definition of college and career readiness, by helping students develop a depth of understanding and ability to apply mathematics to novel situations, as college students and employees regularly do.
- 3) emphasize mathematical modeling, the use of mathematics and statistics to analyze empirical situations, understand them better, and improve decisions.



Mathematics Department (continued)

Typical Mathematics Progressions

Program	GRADE 9	GRADE 10	GRADE 11	GRADE 12
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Note:

These progressions are typical progressions; however, students may customize their progression at any time. Please note that some pathways require prior approval from the Academic Administrator.

Regents Mathematics	Algebra I	Geometry	Algebra II OR Algebra II w/ Lab	Precalculus OR COLL Alg w/Trig OR Senior Stats
	Algebra I w/lab	Geometry w/lab	Intermediate Algebra/HVCC 110 OR Algebra II w/Lab	Algebra II w/Lab OR COLL Alg w/Trig OR Precalculus AND/OR Senior Stats
	Algebra IA	Algebra IB	Explorations in Math OR Geometry w/lab	Senior Math OR COLL Real World Math (pending BOE approval)
Honors Mathematics	Algebra I Honors	Geometry Honors	Algebra II Honors	COLL Precalculus OR Senior Stats OR AP Statistics
Accelerated Mathematics	Geometry Honors	Algebra II Honors	COLL Precalculus	Senior Calculus Honors OR AP Calculus AB OR AP Calculus BC AND/OR Senior Stats or AP Statistics
Double Accelerated Mathematics	Algebra II Honors	COLL Precalculus	AP Calculus AB	Senior Stats OR AP Statistics
			AP Calculus BC	Calculus III



Mathematics Department (continued)

Mathematics Courses

Algebra I (NCAA Core)

1 YEAR/1 UNIT

Course description

The purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. This course will be based on the Next Generation Learning Standards and will include five critical areas: relationships between quantities and reasoning with equations and their graphs; descriptive statistics; linear and exponential functions; polynomial and quadratic expressions, equations, and functions; and modeling with equations and functions.

Course Requirements

Minimum final grade in Math 8 of 65%.

A TI-84+ calculator is required for this course.

Students will take the Algebra I Regents exam in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

Minimum final grade of 80% in Math 8,

OR minimum final grade of 70% in Math 8H.

Algebra I Honors (NCAA Core)

1 YEAR/1 UNIT

Course description

The topics outlined in Algebra I will be enriched to include more extensive study.

Course Requirements

A TI-84+ calculator is required for this course.

Students will take the Algebra I Regents exam in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

Minimum final grade of 95% in Math 8,

OR minimum final grade of 90% in Math 8H.

It is strongly suggested that students entering this course complete the summer practice work. This practice consists of previously learned skills and concepts for which mastery will be expected in Algebra I Honors.

Algebra I with Lab (NCAA Core)

1 YEAR/1 UNIT

Course description

The topics outlined in Algebra I will be taught in this course with more support given to students. Students will meet with their math teacher for an additional block of time within their schedule. In this way, students have more time built into their schedules to learn the course objectives.



Course Requirements

Minimum final grade of 65% in Math 8.

A TI-84+ calculator is required for this course.

Students will take the Algebra I Regents exam in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

Final grade of less than 80% in Math 8,

OR final grade of less than 70% in Math 8H,

OR recommendation of current math teacher,

OR students who want more support in their schedule.

Algebra IA (NCAA Core)

1 year/1 unit

Course description

This is the first of a two year course that is designed to assist students in passing the Next Generation Algebra I Regents exam.

Students in this course will strengthen their foundational skills taught in middle school, particularly those taught in Grade 8, and

begin the Algebra I curriculum. The intent is to prepare students to successfully complete the Algebra I course in 10th grade in

Algebra IB and pass the Regents exam in June after completing Algebra IB.

Course Requirements

A TI-84+ calculator is required for this course.

Students will take the Algebra I Regents exam after completing Algebra IB.

Course Recommendations

Students who do not pass Math 8 must take this course,

OR recommendation of current teacher.

Algebra IB (NCAA Core)

1 year/1 Unit

Course description

Students in this course will complete the Algebra I curriculum. These topics include: relationships between quantities and reasoning with equations and their graphs; descriptive statistics; linear and exponential functions; polynomial and quadratic expressions, equations, and functions; and modeling with equations and functions.

Course Requirements

Successful completion of Algebra IA.

A TI-84+ calculator is required for this course.

Students will take the Algebra I Regents exam in June, and it will represent 10% of the student's final grade for the course.

Explorations in Mathematics

1 year/1 Unit

Course description

This course is for students who have passed Algebra IA, Algebra IB, and the Algebra I Regents exam. The units of study in this course are designed to prepare students for the workforce or a two year college.

Course Requirements

Students who have successfully completed Geometry are not eligible to take this course.

Successful completion of Algebra IA and Algebra IB.



Geometry (NCAA Core)

1 Year/1 Unit

Course description

This mathematics course is the second in the New York State Regents program leading to an Advanced Regents Diploma. This course will be based on the Next Generation Learning Standards and will include the study of congruence, proof, constructions, similarity, trigonometry, coordinate geometry, and circles.

Course Requirements

Successful completion of Algebra I, Algebra I with Lab, or Algebra I Honors.

A TI-84+ calculator is required for this course.

Students will take the Geometry Regents exam in June, it will represent 10% of the student's final grade for the course.

Course Recommendations

Minimum final average of 85% in Algebra I or Algebra I with Lab,

OR minimum final average of 80% in Algebra I Honors.

Geometry Honors (NCAA Core)

1 Year/1 Unit

Course description

The Geometry course of study will be enriched to include more extensive/rigorous proof and applications.

Course Requirements

A TI-84+ calculator is required for this course.

Students will take the Geometry Regents in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

Final average of at least a 90% in Algebra I Honors,

OR minimum final average of 95% in Algebra I.

It is strongly suggested that students entering this course complete the summer practice work. This practice consists of previously learned skills and concepts for which mastery will be expected in Geometry Honors.

Geometry with Lab (NCAA Core)

1 YEAR/1 UNIT

Course description

The topics outlined in Geometry will be taught in this course with more support given to students. Students will meet with their math teacher for an additional block of time within their schedule. In this way, students have more time built into their schedules to learn the course objectives.

Course Requirements

Minimum final grade of 65% in Algebra I, Algebra I with Lab, Algebra IB.

A TI-84+ calculator is required for this course.

Students will take the Geometry Regents exam in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

A final grade of at least an 85% in Algebra IB,

OR A final grade less than an 80% in Algebra I,

OR a final grade of at least a 65% in Algebra I with Lab,



OR recommendation of current math teacher,
OR students who want more support in their schedule.

COLL Intermediate Algebra (HVCC MATH 110 - 3 credits)

1 Year/1 Unit

Course description

The first semester will include prerequisite skills and concepts that are needed for the second semester. The second semester will be the Intermediate Algebra-HVCC 110 course. This course will include a review of the principles of algebra and introductory trigonometry. Topics include: operations on polynomials, first-degree equations, factoring, algebraic fractions, exponents, radicals, quadratic equations, right triangle trigonometry, and graphing linear equations. This course is intended for Juniors who need to strengthen their Algebra skills before taking Algebra II or Algebra II with Lab in their senior year.

Course Requirements

Successful completion of Algebra I or Algebra IF with Lab **and** Geometry or Geometry with Lab.

Course Recommendations

*Students who have course grades **below 75 in Algebra and Geometry** or **below 80 in Algebra I with Lab and Geometry with Lab** during the regular school year should strongly consider taking this course.*

Students may choose to take this course for 3 HVCC college credits. The cost is \$70 per credit hour (tuition assistance is available for those who qualify) if you wish to take the course for HVCC credit.

Algebra II (NCAA Core)

1 year/1 unit

Course description

This course completes the curriculum outlined in the Common Core Regents curriculum. The course includes the study of polynomial, rational, and radical relationships, trigonometric functions, functions, and inferences and conclusions from data.

Course Requirements

A TI-84+ calculator is required for this course.

Students will take the Algebra II Regents exam in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

Minimum final average of an 85% in Geometry or Geometry with Lab,

OR minimum final average of an 80% in Geometry Honors.

Algebra II Honors (NCAA Core)

1 year/1 unit

Course description

The topics outlined in Algebra II will be enriched to include more extensive study and applications.

Course Requirements

A TI-84+ calculator is required for this course.

Students will take the Algebra II Regents exam in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

A minimum final average of 95% in Algebra I and Geometry,

OR a minimum final average of 90% in Algebra I Honors and Geometry Honors.



It is strongly suggested that students entering this course complete the summer practice work. This practice consists of previously learned skills and concepts for which mastery will be expected in Algebra II Honors.

Algebra II with Lab (NCAA Core)

1 YEAR/1 UNIT

Course description

The topics outlined in Algebra II will be taught in this course with more support given to students. Students will meet with their math teacher for an additional block of time within their schedule. In this way, students have more time built into their schedules to learn the course objectives.

Course Requirements

A TI-84+ calculator is required for this course.

Students will take the Algebra II Regents exam in June, and it will represent 10% of the student's final grade for the course.

Course Recommendations

A final Geometry grade of at least a 70,
OR a final grade in Geometry with Lab of at least a 75,
OR recommendation of current math teacher,
OR students who want more support in their schedule.

College Algebra with Trigonometry - HVCC 150 (NCAA Core)

1 Year/1 Unit

Course description

The first semester will include prerequisite skills and concepts that are needed for the second semester. The second semester will be the HVCC MATH 150 course. The course includes a review of algebra and numerical trigonometry. Topics include factoring, rational expressions, solving linear and quadratic equations, solving simultaneous linear equations, functions, lines, exponentials, logarithms, numerical trigonometry and solving triangles. This course is intended for students who have completed Algebra II and would like to strengthen their skills further before taking a higher level math class in college.

Course Requirements

Required: Successful completion of Algebra I, Geometry, and Algebra II.

Course Recommendations

Recommendation: Those who have passed Algebra II or Algebra II with Lab with a grade less than an 80%

Students may choose to take this second semester for 4 HVCC college credits. The cost is \$70 per credit hour (tuition assistance is available for those who qualify) if you wish to take the course for HVCC credit.

Senior Math

1 Year/1 Unit

Course description

This course is the 4th year for students who have completed Algebra IA, Algebra IB, and Explorations in Math. The goals of the course include giving students experiences with math topics that they will need to enter a 2 year college credit-bearing math course. It is strongly encouraged that all students take four years of math.

Course Requirements

Successful completion of Algebra IA, Algebra IB, and Explorations in Math.



COLL Real World Mathematics (HVCC MATH 120 - 3 credits)*

*pending BOE approval

1 Year/1 Unit

Course description

This course is a 4th year option for students who have successfully completed Algebra IA, Algebra IB, and Explorations. Content emphasizes contemporary applications of mathematics including statistics, data analysis, consumer mathematics, networking, geometry, and tiling.

Course Requirements

Successful completion of Algebra IA, Algebra IB, and Explorations

Course Recommendations

Students who complete Explorations with a course grade of at least an 85 should consider taking this course.

Students may choose to take this course for 3 HVCC college credits. The cost is \$70 per credit hour (tuition assistance is available for those who qualify) if you wish to take the course for HVCC credit.

Precalculus (NCAA Core)

1 Year/1 Unit

Course description

This course will emphasize preparation of students for the study of advanced mathematics. The course will consist of a survey of a number of topics including trigonometry, polar coordinate geometry, differentiation and integration. Students will develop the ability to analyze, graph and solve higher degree equations. Sequences, Series, Limits, Derivatives and Integrals will be studied with limited applications to maximum, minimum, area and volume problems. A working knowledge of the real and complex number systems will be developed. Graphing techniques will involve the Cartesian and polar coordinate systems.

Course Requirements

A TI-84+ calculator is required for this course.
Successful completion of Algebra I, Geometry, and Algebra II.

Course Recommendations

Final grade of at least an 80% in Algebra II or Algebra II with Lab.

COLL Precalculus (HVCC MATH 170 - 4 credits) (NCAA Core)

1 Year/1 Unit

Course description

These sections of Precalculus will be enriched to include more extensive study and application of Precalculus topics as well as the investigation of additional topics. It is strongly recommended that students complete the summer assignment to maintain the skills and concepts that are needed for the honors level course.

Course Requirements

A TI-84+ calculator is required for this course.
Successful completion of Algebra I, Geometry, and Algebra II.

Course Recommendations

Minimum final average of 90% in Algebra II Honors,
OR minimum final average of 95% in Algebra II.



It is strongly suggested that students entering this course complete the summer practice work. This practice consists of previously learned skills and concepts for which mastery will be expected in COLL Precalculus.

Students may choose to take this course for 4 HVCC college credits. The cost is \$70 per credit hour (tuition assistance is available for those who qualify) if you wish to take the course for HVCC credit.

Senior Statistics

1 Year/1 Unit

Course description

The primary objective of the course is to give students a foundational and working knowledge of statistical tools, methods, and key understandings that will be helpful in life as well as their studies in the college setting. This course will include applications and projects to allow students to apply their learning.

Course Requirements

Successful completion of Algebra II.

A TI-84+ calculator is required for this course.

Course Recommendations

Students who have scored under an 80 in Algebra II, have successfully completed Algebra II with Lab, or want a course that is not at the AP level should consider taking this course.

***This course may be taken concurrently with another math course as long as the requirement has been met.

Advanced Placement Statistics (NCAA Core)

1 Year/1 Unit

Course description

AP Statistics is divided into four major themes: exploratory analysis, planning a study, probability and statistical inference. Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns. In planning a study, data must be collected according to a well-developed plan if valid information on a conjecture is to be obtained. Probability is the tool used for anticipating what the distribution of data should look like under a given model. Statistical inference guides the selection of appropriate models. This course may be taken concurrently with Precalculus or Calculus.

Course Requirements

Successful completion of any level of Algebra II.

A TI-84+ calculator is required for this course.

All students enrolled in this course are expected to take the AP exam in May. The cost of the exam is \$98 which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program.

Course Recommendations

Minimum final average of at least an 80 in Algebra II. Students whose average in Algebra II is under an 80 should consider taking Senior Statistics. Students who successfully complete Algebra II with Lab are strongly encouraged to take Senior Statistics.

***This course may be taken concurrently with another math course as long as the requirement has been met.



Mathematics Department (continued)

Senior Calculus Honors (NCAA Core)

1 Year/1 Unit

Course description

The primary objective of this course is to give substantial training in differential and integral calculus with sufficient application to bring out the meaning and importance of the subject. Topics in this course will include: analytic geometry review, limits, differential and integral calculus with applications. Students scheduling themselves for this course are expected to commit themselves to consistent, rigorous study throughout the year.

Course Requirements

Successful completion of COLL Precalculus or Precalculus.

Course Recommendations

Final grade less than an 85% in Precalculus,
OR a final grade less than 80% in COLL Precalculus

Advanced Placement Calculus AB (NCAA Core)

1 Year/1 Unit

Course description

The primary objective of this course is to give substantial training in differential and integral calculus with sufficient application to bring out the meaning and importance of the subject. The course will parallel the year course in the subject now given by colleges and will include the following topics: Analytic Geometry review and extension, limits, differential and integral calculus of algebraic and transcendental functions and application of differential and integral calculus. Students scheduling themselves for this course are expected to commit themselves to consistent, rigorous study throughout the year.

Course Requirements

Successful completion of COLL Precalculus or Precalculus.

A TI-84+ calculator is required for this course.

All students enrolled in this course are expected to take the AP exam in May. The cost of the exam is \$98 which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program.

Course Recommendations

Final grade of at least an 85% in Algebra II Honors **and** COLL Precalculus,
OR Final grade of at least a 90% in Algebra II and COLL Precalculus

Students who have taken non-honors Algebra II and/or non-honors Precalculus will experience a much higher level of rigor and need for prerequisite knowledge in this course. Students should have room in their schedules to seek extra help from the teacher.

Advanced Placement Calculus BC (NCAA Core)

1 Year/1 Unit

Course description

This course covers all the material in AB Calculus in greater depth, as well as, L-Hopital's rule, topics dealing with sequences and



series and elementary differential equations. A graphical and analytical instructional approach is emphasized. The Advanced Placement test for BC Calculus is given in the spring. This course is quite rigorous and should only be considered by students willing to commit themselves and their time to consistent, rigorous study throughout the year.

Course Requirements

Successful completion of COLL Precalculus.
A TI-84+ calculator is required for this course.

All students enrolled in this course are expected to take the AP exam in May. The cost of the exam is \$98 which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program.

There is a required summer assignment. This practice consists of previously learned skills and concepts for which mastery will be expected in BC Calculus.

Course Recommendations

Minimum final average of 95% in COLL Precalculus **and** Algebra II Honors.

COLL Calculus 3 (HVCC MATH 210 - 4 credits)

1 Year/1 Unit

Course description

This course includes topics in multivariate and vector calculus, including vectors in a plane and in space, vector-valued functions, functions of several variables, partial derivatives, surfaces and space curves, multiple integrals, cylindrical and spherical coordinates, applications to area and volume, vector fields, line integrals, and Green's Theorem. Topics in linear algebra include matrices, elementary row operations, systems of linear equations, augmented matrices, Gaussian and Gauss-Jordan elimination, inverse matrices, matrix algebra, eigenvalues and eigenvectors, determinants, vector spaces, subspaces, and basis vectors. **This is an online course offered through HVCC and is dependent on HVCC's course offerings.**

Course Requirements

Successful completion of BC Calculus.
A TI-84+ calculator is required for this course.
Students pay tuition for this course and earn 4 credits through HVCC. Students take this course as an independent study.

NOTE: Students may take this course as...

- 1) *Pass/Fail* If they take this option, it will NOT count toward their GPA and will only appear on their transcript as P or F.
- 2) *For a grade* In this case, the student will receive a number grade on their transcript, and it will be counted toward their GPA with a multiplier of 1.06.



Music Department

Graduation Requirements

REGENTS DIPLOMA

The 1 unit art/music required for a Regents Diploma is supported by any Foundation Level Course.

- Concert Band
- Orchestra
- Concert Choir
- Theory I

REGENTS DIPLOMA WITH ADVANCED DESIGNATION

Students seeking an Advanced Regents Diploma may use a 5-unit Music pathway as a substitute for the world language requirement. Music Theory and performing ensembles are the foundation level courses which support this pathway.

PATHWAY FOR PROSPECTIVE MUSIC STUDENTS

Since the vast majority of music schools require an audition, (one which includes performing either vocally or instrumentally as well as sight-singing and theory), these courses are recommended for students interested in careers in the following music fields: Music Education, Music Industry, Music Performance, Musical Theater, Music Therapy, Music Composition, Music Critic, Worship Musician, Armed Forces Music.

- Music Theory I = 1 Unit
- AP Music Theory = 1 Unit
- Performing Ensembles = 3 Units

PATHWAY FOR ART/MUSIC STUDENTS

- Studio in Art – Foundation Level = 1 Unit
- Music Theory = 1 Unit
- Art or Music Electives = 3 Units



Music Department (continued)

Typical Music Progressions

Program	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Band Progression	Required: Concert Band -OR- Symphonic Band	Required: Concert Band	Required: Symphonic Band	Required: Wind Ensemble -OR- Symphonic Band
	Concurrent Band Elective: -Freshmen Jazz Band	Concurrent Band Elective: Concert Jazz Band	Concurrent Band Electives: -Concert Jazz Band -Jazz Ensemble -Music Theory I	Concurrent Band Electives: -Concert Jazz Band -Jazz Ensemble -Music Theory I -AP Music Theory
Orchestra Progression	Required: String Orchestra	Required: String Orchestra	Required: String Orchestra	Required: String Orchestra
			Concurrent Music Electives: -Chamber Orchestra -Music Theory I	Concurrent Music Electives: -Chamber Orchestra -Music Theory I -AP Music Theory
Choir Progression	Required: Concert Choir	Required: Concert Choir	Required: Concert Choir	Required: Concert Choir
	Concurrent Choir Electives: -Choraliers		Concurrent Choir Electives: -Choraliers -Mostly A Capella -Music Theory I	Concurrent Choir Electives: -Chamber Orchestra -Mostly A Capella -Music Theory I -AP Music Theory
General Music Progression			Music Electives: -Music Theory I	Music Electives: -Music Theory I -AP Music Theory

Notes: These progressions are typical progressions; however, students may customize their progression at any time.

- A five-unit Music sequence may be used instead of a World Language sequence for an Advanced Regents Diploma.
- One high school music or art credit is required for graduation.



Music Department (continued)

Courses

Music Theory I

1 Year/1 Unit

Course Description

This full year introductory course in the basic principles of music theory will teach students how to read and write music. Emphasis will be placed on aural skills; including sight singing and ear-training, as well as rhythmic, melodic and harmonic dictation. The course will also cover major and minor scales, key signatures, the principles of basic four-part harmony and music composition. Students will be introduced to music technology programs. Credit may be applied toward the one-credit art/music requirement.

Course Requirements/Recommendations

- This course is offered at HS East for sophomores, juniors, and seniors.
- Requirement: Demonstration of basic rhythm and aural skills, including the ability to match pitch vocally.

Advanced Placement Music Theory

1 Year/1 Unit

Course Description

This course is limited to highly motivated music students who are interested in an in-depth study of advanced music theory. This course integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, elementary composition, music history and style. Musicianship skills such as dictation and sight singing are also part of this class. The quality, concentration and breadth required should be equivalent to an introductory college course in music theory. Students will prepare for the AP music exam as part of the focus of this course.

Course Requirements/Recommendations

- This course is offered at HS East.
- Advanced Placement course credit is earned by taking the AP music exam, which includes an evaluation of written and aural skills. This evaluation requires a fee*. The AP exam must be taken in order to earn the AP designation on the transcript and the multiplier of 1.06 in the weighted rank calculation. All Shenendehowa students who take AP courses pay the exam fee*. The AP Music Theory Exam is approximately \$95*.
*The fee is greatly reduced for students who qualify for the Federal Free and Reduced Lunch program. Please see your counselor if you do not qualify for the Free and Reduced Lunch program and the fee would present a financial hardship.
- Requirement: 90 average in Theory I or satisfactory grade on the placement exam. Students must also demonstrate ability to vocally match pitch.

Chamber Orchestra

1 Year/1 Unit

Course Description

The Chamber Orchestra is an auditioned string ensemble for students in grades 11-12 that is designed to challenge the most skilled and mature string students. Students will be encouraged to seek recommended private instruction. Chamber Orchestra will explore and sight-read a wide range of classic concert literature, with an emphasis on performance excellence and NYSSMA level 6 literature. Performance is a required part of the course including evening concerts, assemblies, festivals, etc. This group is frequently called upon to represent the school district at various community events. Chamber Orchestra is available to students in High School East.



Course Requirements/Recommendations

Requirement: Successful completion of previous year's orchestra class, audition, attendance at all performances, and weekly group instrumental lessons during the school day. Students who study privately may be exempt from the weekly lessons, at the discretion of the director.

String Orchestra

1 Year/1 Unit

Course Description

Membership in String Orchestra is open to orchestral string players who have demonstrated proficiency in performance in accordance with the Shenendehowa Essential Content and Competencies. Performance is a required part of the course including evening concerts, assemblies, festivals, etc. String Orchestra meets at High School West for grade 9 students and at High School East for students in grades 10-12.

Course Requirements/Recommendations

Requirement: Successful completion of previous year's orchestra class, attendance at all performances, and weekly group instrumental lessons during the school day. Students who study privately may be exempt from the weekly lessons, at the discretion of the director.

Grade 9 Freshman Jazz Band

1 Year/.5 Unit

Course Description

This beginning ensemble, which meets for one period on alternating days, provides basic instruction in jazz-related rhythm, tone, style, concept and listening skills. The ultimate goal of this ensemble is to provide interested students an opportunity to study and perform basic jazz ensemble literature. Various audio and visual resources will be utilized in this course from a performance, stylistic and historical reference. This band performs evening school concerts.

Course Requirements/Recommendations

Requirement: Attendance at all performances, successful completion of previous year's jazz band, and audition. Concurrent enrollment in Grade 9 Concert Band or Symphonic Band (Orchestra for bass players). Exception: piano and guitar players upon need.

Grades 10-12 Concert Jazz Band

1 Year/.5 Unit

Course Description

This intermediate ensemble, which meets for one period on alternating days, continues the study and performance of jazz literature for the more advanced student. Handouts, computer technology, and various audio recordings, will be used to continue the formal study of jazz appreciation and listening skills. This band performs evening school concerts.

Course Requirements/Recommendations

Requirement: Attendance at all performances, successful completion of previous year's jazz band, and audition. Concurrent enrollment in Concert Band, Symphonic Band or Wind Ensemble (Orchestra or Chamber Orchestra for bass players). Exception: piano and guitar players upon need.



Symphonic Band

1 Year/1 Unit

Course Description

The ensemble aims at developing excellent ensemble techniques through the performance of quality band literature in accordance with the Shenendehowa Music Essential Content and Competencies. Performance is a required part of the course including evening concerts, assemblies, festivals, etc. This course is offered at HS West for students in grade 9 and at East for students in grades 11 and 12.

Course Requirements/Recommendations

Requirement: Successful completion of previous year's band, audition for grade 9 students at West and grades 11 and 12 at HS East, attendance at all performances, and weekly group instrumental lessons during the school day. Students who study privately may be exempt from the weekly lessons, at the discretion of the director.

Wind Ensemble

1 Year/1 Unit

Course Description

The high school wind ensemble is a select auditioned music ensemble designed to challenge the most advanced, musically mature and skilled student instrumentalists. Students will be recommended for audition by their respective band director, although ultimate acceptance will be at the discretion of the wind ensemble director. Students will be encouraged to seek recommended private instruction, as well as perform in small chamber ensembles during school lessons. Wind ensemble will explore and sight read a wide range of professional classic concert band literature, with an emphasis on performance excellence and NYSSMA level 6 literature. Performance is a required part of the course including evening concerts, assemblies, festivals, etc. This course is offered at East.

Course Requirements/Recommendations

Requirement: Successful completion of previous year's band, audition, attendance at all performances, and weekly group instrumental lessons during the school day. Students who study privately may be exempt from the weekly lessons, at the discretion of the director.

Concert Choir

1 Year/1 Unit

Course Description

Membership in the Concert Choir is open to all students with previous experience or with an audition/director approval. A variety of choral styles and compositions will be studied with music reading skills and vocal/choral techniques as the main focus. Performance is a required part of the course including evening concerts, assemblies, festivals, etc. Concert Choir is offered at West for Grade 9 students and at East for students in grades 10-12.

Course Requirements/Recommendations

Requirement: Attendance at all performances is required.

West Chorale (Grade 9) / Choraliers (Grades 10-12)

1 Year/.5 Unit

Course Description

Membership in this ensemble is open to students who pass an audition and are recommended by a music teacher. Students will explore and sight read a wide range of classic choral literature with an emphasis on performance. West Chorale (at HSW) is an extension of West Concert choir and concurrent enrollment is required. Choraliers is an extension (not a substitute) of the full credit Concert Choir ensemble and concurrent enrollment is required. Band and orchestra students may audition for these ensembles and utilize their full credit ensemble as the concurrent enrollment.



Course Requirements/Recommendations

Requirement: This is an auditioned group. Attendance at all performances is required.

Bella Voce

1 Year/.5 Unit

Course Description

Membership in this ensemble is open to select vocalists by audition. Bella Voce is an advanced, premier choral ensemble for students in grades 11 and 12. This course challenges the most mature and musically independent choral student with demanding literature. Concurrent enrollment in Concert Choir is required (or another full credit ensemble).

Course Requirements/Recommendations

Requirement: This is an auditioned group and requires teacher recommendation. Attendance at all performances is required.

Applied Music

1 Year/.5 Unit

Course Description

Students may seek private instruction on those instruments not offered as part of the school music program. These typically include, but are not limited to, guitar and piano. One-half credit is available for students who study music privately, provided the course of study is approved by the Academic Administrator for Music, K-12 and High School Principal. Students may receive credit provided State regulations and governing procedures and standards are satisfied. Registration must be approved by the Academic Administrator for Music and the private lesson instructor by October 1st.

Course Requirements/Recommendations

Please Note: Credit for Private Applied Music Instruction is not applicable towards a diploma. Applied Music Instruction can only be used for elective credit. Applied Music Credit does not fulfill the music credit needed for graduation. Students can earn a maximum of 0.5 credit per year.



Physical Education Department

Physical Education is a New York State mandated course requirement. Students must successfully complete eight semesters during their high school experience, the equivalent of 2 credits. At Shenendehowa, the Physical Education Department strives to guide students in positive directions, enabling them to develop competency and proficiency in their physical abilities. The Physical Education Department at Shenendehowa provides students with opportunities to interact with peers and become engaged in activities that promote lifetime fitness.

Mission

The goal of physical education is to develop physically educated individuals who have the knowledge, skills, and confidence to enjoy a lifetime of healthy physical activity. It is our belief that this experience will empower students to continue this healthful lifestyle.

Students in Physical Education classes grades nine through twelve are developing skills that will make them successful. In 9th grade students are afforded the opportunity to choose some elective activities that offer different learning experiences that coincide with our program objectives and exit outcomes. In grades ten through twelve, students have the opportunity to choose an elective track for their physical education experience. The track provides a variety of skills/sports. At all grade levels we include principles that promote a Universal Design for Learning.

Personal Development and Fitness

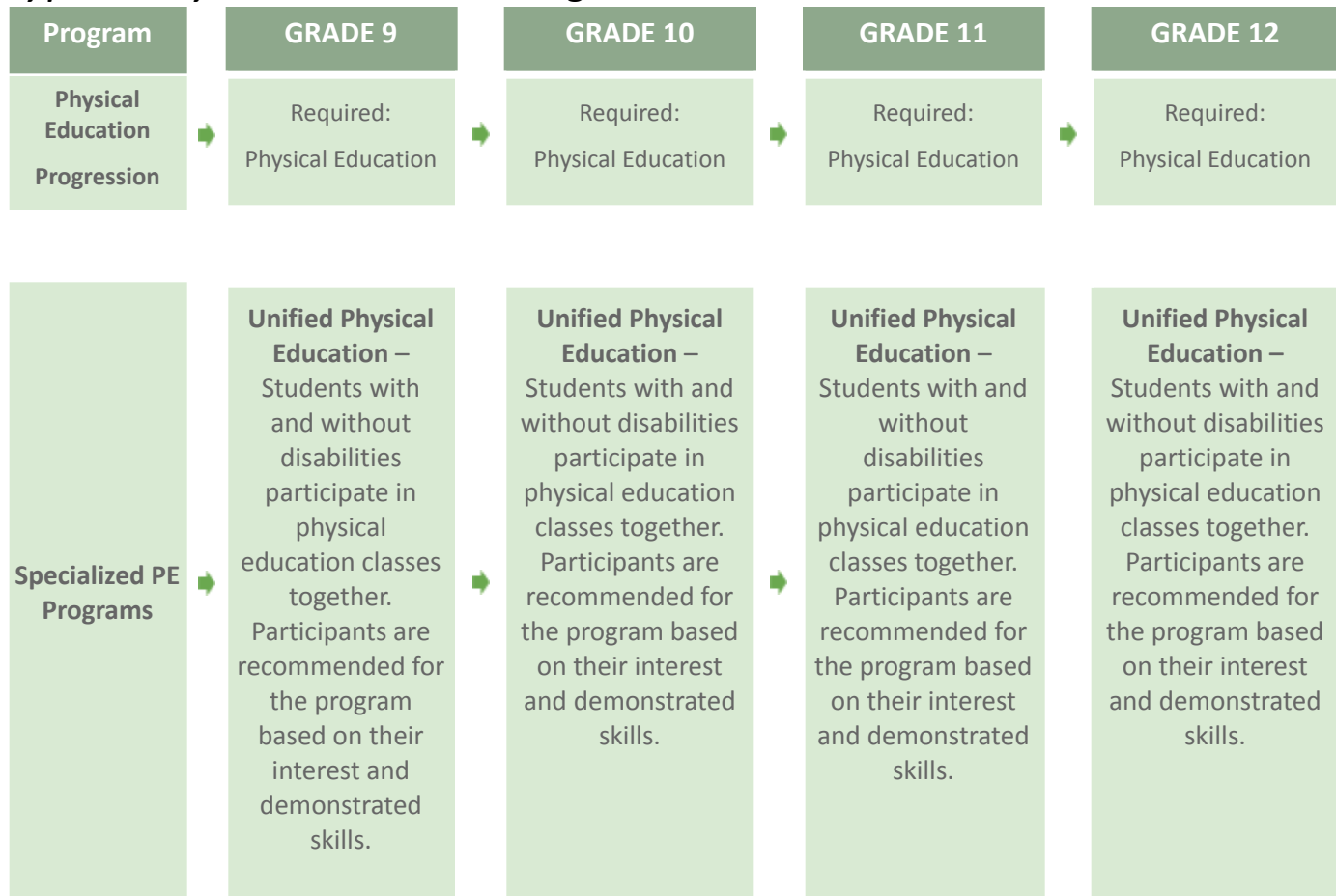
The strength and conditioning physical education track is for students in grades 10-12 who are interested in participating in weight training during physical education class. This class is by recommendation only. This class will teach proper lifting and spotting techniques for a variety of different lifts, while students participate in a district wide workout plan. Students who successfully participate in this track will see increases in their overall physical strength and speed, while gaining skills and knowledge necessary to safely continue a strength and conditioning program outside of our immediate physical education environment. This will enhance their lifetime fitness knowledge and capabilities.

Cardio Fitness and Development

This track is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for optimal personal physical fitness. Students will benefit from comprehensive weight training and cardiovascular endurance exercises utilizing circuit machines, treadmills, ellipticals, and cycling bicycles. All students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning, incorporating the five components of physical fitness.



Typical Physical Education Progressions





Science Department

REQUIREMENTS

Students are required to successfully complete three units and one Regents Exam in science to graduate with a Regents diploma. Of the three units, one must be from the Living Environment curriculum and one from the Physical Setting. Students in pursuit of an Advanced Regents diploma are required to pass two Regents Exams (one Physical Science and one Life Science).

Progression

9th Grade Course Options:

Physical Setting/Regents Earth Science	1 Year1 Unit
Physical Setting/Honors Earth Science	1 Year1 Unit

10th Grade Course Options:

Living Environment/Regents Biology	1 Year1 Unit
Living Environment/Honors Biology	1 Year1 Unit

11th Grade Course Options:

Principles of Chemistry	1 Year1 Unit
Physical Setting/Regents Chemistry	1 Year1 Unit
Physical Setting/Honors Chemistry	1 Year1 Unit
Advanced Placement Chemistry	1 Year1 Unit
Environmental Science	1 Year1 Unit

12th Grade Course Options:

Principles of Physics	1 Year1 Unit
Physical Setting/Regents Physics	1 Year1 Unit
Siena College Physics 110/120	1 Year1 Unit
College Forensic Science	1 Year1 Unit
Advanced Placement Biology	1 Year1 Unit
Advanced Placement Environmental Science	1 Year 1 Unit

The Science department strongly recommends that students graduate with four years of science. We believe that taking four years of science in high school will better prepare our students for the future, regardless of their planned pursuits.

Students will NOT be allowed to enroll in the elective science courses (Honors Forensic Science, AP Biology, or AP Environmental Science) without completing at least one year of Earth Science, Biology, Chemistry, and Physics; the latter of which may be taken concurrently.



Science Department (continued)

Typical Science Progressions

Program	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Regents Science	Physical Setting/ Earth Science Regents	Living Environment/ Biology Regents	Physical Setting/ Chemistry Regents OR Principles of Chemistry	Physical Setting/ Physics Regents OR Principles of Physics
Honors Science	Physical Setting/Earth Science Honors	Living Environment/ Biology Honors	Physical Setting/ Chemistry Honors OR AP Chemistry	Physical Setting/ Physics Regents OR Siena College Physics OR AP Biology (w/ Physics)
Accelerated Science	Living Environment/ Biology Honors	Physical Setting/ Chemistry Honors OR AP Chemistry	Physical Setting/ Physics Regents OR Siena College Physics	College Forensic Science OR AP Environmental Science OR AP Biology

Note:

These progressions are typical progressions; however, students may customize their progression at any time.



Science Department (continued)

Science Courses

Physical Setting/Regents Earth Science (NCAA Core)

1 Year/1 Unit

Course Description

Regents Earth Science follows the New York State Core Physical Setting/Earth Science Curriculum. Skills, ideas, concepts and facts are emphasized through laboratory experiences, classroom discussion, media demonstrations, mathematical analyses, notebook work, and textbook assignments. Topics of study include Astronomy, Meteorology, and Geology. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Course Requirements/Recommendations

The accompanying Regents exam will function as a final exam for this course, representing 10% of the student's final grade.

Physical Setting/Honors Earth Science (NCAA Core)

1 Year/1 Unit

Course Description

Honors Earth Science follows the New York State Core Physical Setting/Earth Science Curriculum, as well as a number of enrichment topics. Skills, ideas, concepts, and facts are emphasized through laboratory experiences, classroom discussion, media demonstrations, mathematical analyses, notebook work, and textbook assignments. Topics of study include Astronomy, Meteorology, and Geology. Students may be required to do independent research study or project work. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Course Requirements/Recommendations

The accompanying Regents exam will function as a final exam for this course, representing 10% of the student's final grade.

Minimum Math Recommendation: Completion of Math 8H or taking Algebra I Honors.

Minimum Science Recommendation: 95% final course average in Science 8.

Living Environment/Regents Biology (NCAA Core)

1 Year/1 Unit

Course Description

Regents Biology follows the New York State Core Living Environment Curriculum. Emphasis is placed on scientific inquiry, testing and analyzing proposed explanations using conventional and invented methods, examining similarities and differences among living things, reproduction and development, the basic unit of life, physiology, classification, ecology, genetics, biochemistry, and evolution. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Course Requirements/Recommendations

The accompanying Regents exam will function as a final exam for this course, representing 10% of the student's final grade.

Minimum Science Recommendation: A passing grade in Regents Earth Science.



Science Department (continued)

Living Environment/Honors Biology (NCAA Core)

1 Year/1 Unit

Course Description

Honors Biology covers the New York State Core Living Environment Curriculum as well as various enrichment topics. Students are exposed to more sophisticated concepts and probe more deeply into recent research findings than in Regents Biology. Students may be required to do independent research study or project work. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Course Requirements/Recommendations

The accompanying Regents exam will function as a final exam for this course, representing 10% of the student's final grade. Minimum Science Recommendation: A final average of 85% in Honors Earth Science or 90% in Regents Earth Science and a score of at least 85% on the Earth Science Regents Exam.

Principles of Chemistry (NCAA Core)

1 Year/1 Unit

Course Description

This course is intended to provide a conceptual understanding of the basic principles of Chemistry through laboratory investigations and explorations of real-world, 21st century applications. Topics of study include measurement, matter, energy, phases, atomic structure, periodic table, formulas, equations, bonding, solutions, kinetics, equilibrium, acids & bases, organic, and nuclear chemistry. Emphasis will be placed on the meaning and implications of chemical principles rather than on their mathematical treatment. Students will collect, organize, and analyze data using a computer, the Internet, and other laboratory equipment. Classes meet 5 periods per week.

Course Requirements/Recommendations

A school final exam is administered in June.

Minimum Math Recommendation: Completion of Algebra I and the corresponding Regents Exam.

Minimum Science Recommendation: Successful Completion of Regents Earth Science, Regents Biology and one science Regents Exam.

Physical Setting/Regents Chemistry (NCAA Core)

1 Year 1 Unit

Course Description

Regents Chemistry follows the New York State Core Physical Setting/Chemistry Curriculum and is recommended for students planning on attending a four-year college. Topics of study include matter, energy, atomic and molecular structure, the periodic table, bonding, kinetics, equilibrium, acid/base theory, organic, and nuclear chemistry. This course is theoretical and quantitative. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Course Requirements/Recommendations

The accompanying Regents exam will function as a final exam for this course, representing 10% of the student's final grade.

Minimum Math Recommendation: Completion of Algebra I and the corresponding Regents Exam.

Minimum Science Recommendation: A final average of 75% in both Regents Earth Science and Regents Biology, as well as passing grades on both the Biology Regents Exam and the Earth Science Regents Exam.



Science Department (continued)

Physical Setting/Honors Chemistry (NCAA Core)

1 Year/1 Unit

Course Description

Honors Chemistry follows the New York State Core Physical Setting/Chemistry Curriculum, as well as various enrichment topics. This course is recommended for students who desire a more in-depth and quantitative study of the topics covered in Regents Chemistry. Students may be required to do independent research study or project work. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Four college credits may be obtained through HVCC CHEM 105 by successful completion of this course at a cost of approximately \$70/credit hour for a total of \$280 with scholarships available to waive the full cost of tuition for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the natural science general education requirement at all 64 SUNY and 25 CUNY schools, as well as, at many other institutions.

Course Requirements/Recommendations

The accompanying Regents exam will function as a final exam for this course, representing 10% of the student's final grade.

Minimum Math Recommendation: Completion of Geometry and the corresponding Regents Exam.

Minimum Science Recommendation: A final average of 85% in both Honors Earth Science and Honors Biology or 95% in both Regents Earth Science and Regents Biology, as well as scores of at least 85% on both the Earth Science Regents Exam and the Biology Regents Exam.

Advanced Placement Chemistry (NCAA Core)

1 Year/1 Unit

Course Description

AP Chemistry is designed to be a college course that integrates introductory Regents level work with college level requirements. It is intended for the student who has gone beyond the memorization of facts and has developed the skills of logic and persistence needed to understand the mathematics and models of chemistry. In addition to the topics listed for Regents Chemistry, the course includes such topics as crystal lattices, rate laws, solubility equilibria, and titration of buffered solutions. Students will simultaneously complete Regents and college level assignments in order to be adequately prepared for the AP exam given in early May. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Eight college credits may be obtained through HVCC CHEM 110 & 111 by successful completion of this course at a cost of approximately \$70/credit hour for a total of \$560, with scholarships available to waive the full cost of tuition for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the natural science general education requirement at all 64 SUNY and 25 CUNY schools, as well as, at many other institutions.

Course Requirements/Recommendations

Students in this course will be offered the choice to register for HVCC credit, to take the AP exam in May, or both. The cost of the AP exam is \$98, which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program.

Minimum Math Recommendation: Completion of Geometry and the corresponding Regents Exam

Minimum Science Recommendation: A final average of 95% in both Honors Earth Science and Honors Biology, as well as scores of at least 85% on both the Earth Science Regents Exam and the Biology Regents Exam.



Science Department (continued)

Environmental Science (NCAA Core)

1 Year/1 Unit

Course Description

This course is designed to introduce students to the various aspects of our environment and to the interdependence of life on earth. Topics of study include ecology, biodiversity, climatic changes, pollution, mineral resources, energy, and waste management. It consists of student-centered lab activities in addition to interactive and web-based research and analysis. Students will relate assigned readings to meaningful class discussion. This course can be used as the third unit of science, which is necessary for graduation with a Regents diploma. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet five periods per week.

Course Requirements/Recommendations

A school exam is administered in June.

Minimum Science Recommendation: Successful completion of one unit of Physical Science (Earth Science, Chemistry, or Physics) and one unit of Life Science (Biology).

Principles of Physics (NCAA Core)

1 Year/1 Unit

Course Description

This course is intended to provide a conceptual understanding of the basic principles of Physics through exploration of everyday activities and natural phenomenon. Topics of study include, but are not limited to, the physics of sports, flight, and visual arts. Emphasis will be placed on the meaning and implications of physical principles rather than on their mathematical treatment. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet five periods per week.

Course Requirements/Recommendations

A school exam is administered in June.

Minimum Math Recommendation: Completion of or enrollment in Geometry.

Physical Setting/Regents Physics (NCAA Core)

1 Year/1 Unit

Course Description

Regents Physics follows the New York State Core Physical Setting/Physics Curriculum. Topics of study include mechanics, energy, electricity, magnetism, wave phenomena, and modern physics. This course emphasizes the meaning and implications of physical principles, as well as their mathematical treatment. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Four college credits may be obtained through HVCC PHYS 115 by successful completion of this course at a cost of approximately \$70/credit hour for a total of \$280 with scholarships available to waive the full cost of tuition for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the natural science general education requirement at all 64 SUNY and 25 CUNY schools, as well as, at many other institutions.

Course Requirements/Recommendations

The accompanying Regents exam will function as a final exam for this course, representing 10% of the student's final grade.

Minimum Math Recommendation: Completion of or enrollment in any level of Algebra II.

Minimum Science Recommendation: A final average of 75% in Regents Chemistry and a passing grade on the Chemistry Regents Exam.



Science Department (continued)

Siena College Physics 110/120 (NCAA Core)

1 Year/1 Unit

Course Description

This course is intended for students who plan to major in science or engineering at highly competitive colleges and/or universities. Topics of study include those listed for Regents Physics, as well as, two dimensional collisions, torque and rotational statics, simple harmonic motion, fluid mechanics, thermodynamics, complex resistance circuits, capacitance in series and parallel circuits, internal resistance, electrical vector fields, electrical potential, magnetostatics, electromagnetic induction (Faraday's and Lenz's laws), physical and geometric optics, the photoelectric effect, nuclear physics including mass defect calculations, medical applications of physics principles (torque applied to arm motions, fluid flow through the blood system of the human body, and production of x-rays). Students may be required to do independent research study or project work. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Eight college credits may be obtained through Siena College Physics 110 & 120 by successful completion of this course at a cost of approximately \$500. Tuition may be further reduced for students who qualify for the Federal Free and Reduced Lunch Program.

Course Requirements/Recommendations

The final exam for the first semester course (Siena College General Physics 110) will be taken during January Regents Week and the final exam for the second semester course (Siena College General Physics 120) will be taken during AP Exam time in May.

Minimum Math Recommendation: Completion of or enrollment in Precalculus.

Minimum Science Recommendation: A final average of 90% in Honors Chemistry or 80% in AP Chemistry and a score of at least 85% on the Chemistry Regents Exam.

College Forensic Science (NCAA Core)

1 Year/1 Unit

Course Description

This course is designed to introduce students to the various aspects of forensic science and its connections to earth science, biology, chemistry, and physics. Topics of study include crime scene investigation, chemical analysis including drugs/toxicology, and biological evidence such as DNA, fingerprints, hair, and blood. It consists of student-centered lab activities, in addition to interactive and web-based research and analysis. Students will relate scientific concepts to the investigation of crime scenes and evidence. Students will collect, organize, and analyze data using a computer, the Internet, and other laboratory equipment. Classes meet seven periods per week.

Three college credits may be obtained through UAlbany A BIO 175 by successful completion of this course with at least an 83 overall average at a cost of approximately \$190. Tuition may be further reduced for students who qualify for the Federal Free and Reduced Lunch Program. These credits will count towards the natural science general education requirement at all 64 SUNY and 25 CUNY schools, as well as, at many other institutions.

Course Requirements/Recommendations

A school exam is administered in June.

Minimum Science Recommendations: Accelerated Juniors and/or Seniors who have obtained mastery (a final average of at least 85%) in previous Regents level science courses or 80% in previous Honors level science courses.

Students will NOT be allowed to enroll in the elective science courses (College Forensic Science, AP Biology, or AP Environmental Science) without completing at least one year of Earth Science, Biology, Chemistry, and Physics; the latter of which may be taken concurrently.



Science Department (continued)

Advanced Placement Biology (NCAA Core)

1 Year/1 Unit

Course Description

AP Biology is a senior elective which is designed to be a college level course. It is intended for students who plan to continue their study of science beyond the first year of College Biology. The goals of this course include helping students to develop a conceptual framework for modern biology, gain an appreciation of science as a process, and prepare students to take the AP Exam in Biology. Topics of study include molecules, cells, heredity, evolution, organisms, and populations. Students may be required to do independent research study or project work. Students will collect, organize, and analyze data using a computer, the Internet and other laboratory equipment. Classes meet seven periods per week.

Course Requirements/Recommendations

The AP Exam must be taken (approximately \$95).

Minimum Recommendation: Seniors who have obtained a final average of 90% in previous Honors Science classes and/or 85% in previous AP Science classes. Students must have taken at least Regents or College level Physics (or be concurrently enrolled) in order to take AP Biology.

Students will NOT be allowed to enroll in the elective science courses (Honors Forensic Science, AP Biology, or AP Environmental Science) without completing at least one year of Earth Science, Biology, Chemistry, and Physics; the latter of which may be taken concurrently.

Advanced Placement Environmental Science (NCAA Core)

1 Year/1 Unit

Course Description

This course offers students the opportunity to complete an advanced course of study in Environmental Science. It provides students with scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human made, to evaluate risks associated with these problems and to examine alternative solutions for resolving or preventing them. Investigations will integrate concepts from the field of geology, biology, chemistry, public policy, sociology, and economics. Students will collect, organize, and analyze data using a computer, the Internet, and other laboratory equipment. Classes meet seven periods per week.

Course Requirements/Recommendations

Students MUST complete an independent study research project.

Students are required to take the AP Examination (approximately \$95).

Minimum Science Recommendation: Seniors who have obtained mastery (a final average of at least 85%) in previous Regents level science courses or 80% in previous Honors level science courses.

Students will NOT be allowed to enroll in the elective science courses (Honors Forensic Science, AP Biology, or AP Environmental Science) without completing at least one year of Earth Science, Biology, Chemistry, and Physics; the latter of which may be taken concurrently.



Social Studies Department

REQUIREMENTS

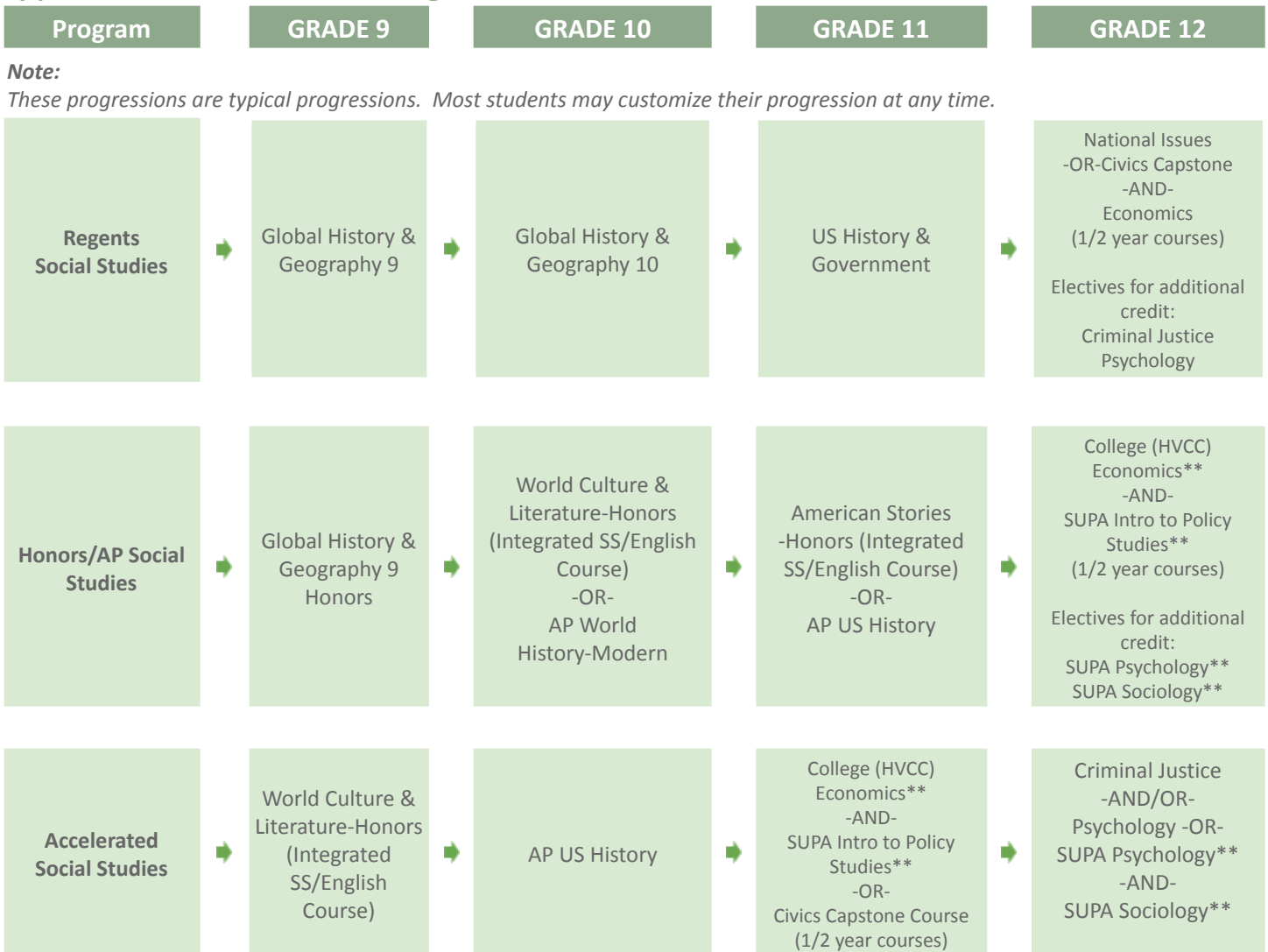
4 Units including:

- Global History & Geography – 2 Units
- U.S. History & Government – 1 Unit
- Participation in Government – .5 Unit
- Economics – .5 Unit

Passing (65+) one Social Studies Regents examination is required for a Regents Diploma

- Global History & Geography OR
- U.S. History & Government

Typical Social Studies Progressions



**College credit is available



Social Studies Department (continued)

Courses

NINTH GRADE...

Global History and Geography 9 (NCAA Core)

1 Year/1 Unit

Course Description

In Global 9, students will learn about the achievements and struggles of people around the world from roughly 10,000 BCE to 1750 CE. We will focus on issues that have endured across time and place in Asia, South Asia, Africa, the Middle East and Europe. Students will learn about the impact of geography, the origins of major world religions, spread of disease, and the rise of empire and global trade. Students' reading and writing skills will be a focus to prepare for the Global Regents exam. Students will participate in lessons to understand multiple perspectives on both current and historical events.

Course Requirements

Students will complete a final project worth 10 % of the final course grade.

Global History and Geography 9 Honors (NCAA Core)

1 Year/1 Unit

Course Description

In Global 9 Honors, students will investigate the development of belief, political, trade and cultural systems throughout the world from 8000 B.C.E. through 1450 C.E. This course is designed to introduce students to the expectations of high school Honors and AP courses in Social Studies. Students will work on developing their historical thinking skills, and work with primary and secondary sources. They will be introduced to a college-level text. Students' abilities to analyze, reason, identify point of view and write will be developed through this course. A summer assignment is required.

Course Requirements/Recommendations

The final exam at the end of the course is worth 10% of the final average.

Recommendation: A positive teacher recommendation, above-grade level reading skills and a minimum average of 95% in Social Studies 8 Honors are strongly recommended.

TENTH GRADE...

Global History and Geography 10 (NCAA Core)

1 Year/1 Unit

Course Description

In Global 10, students continue their investigation into the achievements and struggles of people around the world from 1750 C.E. to the present. Students will investigate the historical role of conflict and change in shaping modern society. Students will continue to examine issues, themes, and historical events from multiple perspectives and make global connections that lead to in-depth understanding. A review book will be supplied by the district. Students' reading and writing skills will be a focus to prepare for the Global Regents exam.

Course Requirements

The Global History & Geography Regents exam score is worth 10% of the final average.



World Culture and Literature – Honors (NCAA Core)

1 Year/1 Unit

Course Description

World Culture-Honors is part of an interdisciplinary course with World Literature-Honors. In these humanities courses, students learn about the connections between art and architecture, literature and historical events in global history. The works of 18th-20th century writers, artists and architects are studied. Students develop their analytic and communication skills in this course, through a variety of writing assignments, research-based activities, and a major oral presentation. A summer assignment is required. A summer assignment is required.

Course Requirements/Recommendations

Students are required to complete a final project and take the Global History & Geography Regents exam. The final project is worth 10% of the final course grade. The Global Regents exam score is worth 10% of the final course grade.

Recommendation: Positive recommendations from the Global 9 and English 9 teachers; a minimum of an 85% average in both English 9 and Global History and Geography 9 is highly recommended.

Advanced Placement World History-Modern (NCAA Core)

1 Year/1 Unit

Course Description

AP World History Modern is the first college level course available in Social Studies. The course provides an intellectual challenge for students with advanced Social Studies reading, writing and thinking skills. AP World History Modern begins with the Late Middle Ages (1200-1450) and concludes with the present day. Students will develop the ability to think analytically, compare, contextualize, analyze documents, write and support historical arguments, and identify patterns of continuity and change over time. The course requires a significant time commitment for reading and preparation outside of class and uses a college-level text.

Course Requirements/Recommendations

All students enrolled in this course are expected to register for and complete the AP exam in May at a cost of \$98, which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program. The score for the Global Regents exam will not be included in the course final grade.

Recommendation: A positive teacher recommendation and a minimum of a 90% average in Global 9 Honors or a 95% average in Global 9 is strongly recommended.

ELEVENTH GRADE...

U.S. History & Government (NCAA Core)

1 Year/1 Unit

Course Description

In U.S. History & Government, students investigate the complex history of the United States, and learn about how individuals and groups have addressed civic and constitutional issues. An examination of U.S. history gives students a basic understanding of the interrelationship between political, economic and social issues faced by the nation since our founding. Emphasis is placed upon the development of critical thinking skills, the analysis of primary and secondary sources, and students' ability to construct and communicate historical argument and evidence in short and long essay formats. The course prepares students for the U.S. History & Government Regents exam. A review book will be provided by the district.

Course Requirements

All students must take the U.S. History and Government Regents exam. The U.S. History and Government Regents exam score will be worth 10% of the final average.



American Stories - History Honors (NCAA Core)

English - 1 Year/1 Unit, Social Studies - 1 Year/1 Unit

Course Description

There is no one American story. The meaning of America, and what it means to be American, has evolved over time, and is experienced differently by Americans depending on their perspectives. American Stories-Honors integrates the disciplines of English and Social Studies to investigate the eras of American history through the lenses of the diverse groups of people who experienced them. Students analyze the documents, literature, film and artwork of the time periods being studied to more deeply understand the complexities of the nation's past. Connections between historical national issues and contemporary challenges are regularly explored. Another unique facet of the course is a long term inquiry project on a topic of the students' choice in which they use research, critical thinking, writing, and creative expression to demonstrate their learning. The completion of this project can earn points toward the New York State Civics Readiness Diploma Seal and the Seal of Biliteracy.

Course Requirements/Recommendations

All students are required to take the U.S. History and Government and English Regents examinations at the conclusion of the course and the resulting scores will be worth 10% of the final course average in each course.

Advanced Placement United States History (NCAA Core)

1 Year/1 Unit

Course Description

In AP US History, students are prepared to think critically about the issues that have confronted and influenced the United States. Students' ability to integrate the examination of factual knowledge, develop and apply analytic skills, and assess primary and secondary sources will be developed in this course. The course provides a college-level, intellectual challenge that requires time to complete assignments (reading, essays and projects) outside of class. The course uses a college-level text. Assignments in this course will improve the ability to write clearly and logically, and develop and communicate historical arguments. A summer reading and writing assignment is required.

Course Requirements/Recommendations

All students enrolled in this course are expected to register for and complete the AP exam in May at a cost of \$98, which may be reduced for students who qualify for the Federal Free and Reduced Lunch Program. The score for the U.S. History and Government Regents exam will not be included in the final average.

Recommendation: A positive teacher recommendation and a minimum of 90% average in World Culture-Honors or AP World History or a 95% average in Global 10 is strongly recommended.

TWELFTH GRADE...

Economics (NCAA Core)

1/2 Year/.5 Unit

Course Description

In Economics, students will learn about how the U.S. economy works, and their role in the national and global economy. Using economic reasoning, students will gain financial literacy by completing projects based on real-world problems. Topics include current issues like the role of supply and demand in determining price, changes to the workforce in the United States, the role of entrepreneurs, as well as the effects of globalization. This course also introduces students to principles of investing, smart use of credit and saving.

Course Requirements/Recommendations

The final exam is worth 20% of the final course average.



Summer School Economics (NCAA Core)

.5 Unit

Course Description

This course will follow the same curriculum as Economics. Students will attend in-person class daily, Monday-Thursday during Summer School and complete 5 hours of study outside of class to meet the requirement of 45 hours of study. If students have more than 1 absence they will be disenrolled and scheduled into Economics during the 2024-2025 school year. Permission to take Summer School Economics is by application only and there specific eligibility requirements including average in grade 11 Social Studies course, credit status as a rising senior and number of absences. There is a final exam in the course.

Course Requirements/Recommendations

The final exam is worth 20% of the final course average.

College (HVCC) Economics (NCAA Core)

1/2 Year/.5 Unit

(ECON 100/Macro)

Course Description

+College Credit Option

In College (HVCC) Economics, students will practice economic reasoning to become informed, rational citizens who use the economic way of thinking to analyze major life issues (i.e., college and student loan issues, acting as consumers, investors, etc.) Through the study of microeconomic and macroeconomic principles students will understand major issues facing the U.S. including the national debt, taxation, unemployment, income inequality. Students will investigate the role of scarcity, supply and demand, markets, the how and why of measuring the economy (including GDP, CPI, and unemployment) as well as monetary and fiscal policy actions. Students will learn and apply mathematical formulas and logic to analyze economic problems. The course uses a college-level textbook.

Course Requirements/Recommendations

The final exam is worth 20% of the final grade. This course can be taken for 3 college credits through Hudson Valley Community College by paying a reduced tuition fee of \$70 per credit hour. Students who qualify for free or reduced lunch will be provided with a scholarship application by their teacher which will waive the full tuition fee.

Recommendations: A positive teacher recommendation and a minimum of an 85% average in students' 11th grade Social Studies course is strongly recommended. In addition, a minimum of an 85% average in Algebra 2 & Trigonometry-Honors or a 90% in Algebra 2 & Trigonometry is strongly recommended.

National Issues Forum (NIF) (NCAA Core)

1/2 Year/.5 Unit

Course Description

National Issues Forum is an issues-based course that examines the public policy process at the local, state, and national level. The goal of the course is to prepare students for their role as active and well-informed citizens. Students are provided with opportunities to investigate and analyze relevant social issues, simulate or engage in the political process, and exercise the skills needed to develop informed opinions. They will also research and evaluate existing public policies from multiple perspectives and propose logical alternatives. Students are expected to take an active, participatory role using the skills they have developed over the course of the entire K-12 Social Studies program. The completion of the final project will count 1.5 points towards the requirements of the NYSED Civics Diploma Seal. This course meets the Participation in Government requirement.



Civics Capstone (NCAA Core)

1/2 Year/.5 Unit

Course Description

Do you know what to do when you see a problem that you want to fix in your community? In the Civics Capstone course, you will learn how to investigate issues, create and evaluate solutions, and take informed action to address the problems that you see. You will discuss and learn more about issues that matter to you. Students will work together in groups throughout the course, and make a presentation of their Capstone project at the end of the semester. This course will empower you to become an active, engaged citizen. Students will earn 4 points toward the NYSED Civics Diploma Seal requirements by successfully completing their Capstone project. This course meets the 12th grade Social Studies Participation in Government requirement. The final project, the presentation of your Capstone project, is worth 10% of the course grade.

Syracuse University Project Advance (SUPA) Introduction to Policy Studies (NCAA Core)

(SYR PST 101) 1/2 Year/.5 Unit

Course Description

+College Credit Option

This introductory college level course examines current public policy issues. Students will examine societal problems on the national, state and local levels, evaluate the effectiveness of current public policies, and develop and analyze alternative policies. Group and individual projects will require students to conduct extensive research and conduct interviews. Students are also expected to observe public meetings and complete minimum community service requirements. Students will develop critical thinking skills and acquire an understanding of the impact that public policies have on a democratic society. This course meets the Participation in Government requirement.

Course Requirements/Recommendations

This course can be taken for 3 college credits through Syracuse University Project Advance by paying a tuition fee of \$115 per credit to SUPA. Tuition assistance and forms are available from SUPA at supa.syr.edu/tuition-assistance.

Recommendation: Students are successful in this course with above-average reading, research and writing skills.

ELECTIVES...

Criminal Justice (NCAA Core)

½ year/.5 Unit

Course Description

Are you curious about what causes people to commit crimes? In this introductory, one-semester elective course, you will learn about the complex systems of criminal justice, policing and sentencing in 21st century America. You will learn about the court system, corrections, juvenile justice, police reform, technology and crimes. Relevant topics will be explored through the use of current materials, guest speakers and field trips (pending funding and scheduling). Students that pass this course will earn .5 points toward the Civics Readiness Diploma Seal.

Requirement: Juniors or Seniors can enroll in this course. Priority will be given to seniors.



Psychology (NCAA Core)

½ year/.5 Unit

Course Description

Psychology is the scientific study of human behavior. In this one-semester course, students will learn about research methods used in Psychology. Topics include the biological basis of behavior, consciousness and perception, learning, memory, personality, cognition and Intelligence, motivation, emotion and mental health and wellness. A final exam will be factored into the course final average.

Requirement: Juniors or Seniors can enroll in this course. Priority will be given to seniors.

*pending Board of Education approval

Syracuse University Project Advance (SUPA) Psychology (NCAA Core)

(SYR PSY-205)

1/2 Year/.5 Unit

Course Description

+College Credit Option

This introductory college level course is designed to provide students with an understanding of the scientific basis of psychology and an increased awareness of their everyday environments. The course will examine such topics as learning, motivation, human development, abnormal behavior, and psychological disorders. Students will use a college textbook, professional journals, and extensive library research to develop an understanding of the psychological factors that influence human interaction. In addition to several college level examinations, students will also research and write a psychological study of a selected topic.

Course Requirements/Recommendations

This course can be taken for 3 college credits through Syracuse University Project Advance by paying a tuition fee of \$115 per credit to SUPA. Tuition assistance and forms are available from SUPA at supa.syr.edu/tuition-assistance.

Requirement: Seniors or Academic Administrator's Approval

Recommendation: Students are successful in this course with above-average study, reading, research and writing skills.

Syracuse University Project Advance (SUPA) Sociology (NCAA Core)

(SYR SOC-101)

1/2 Year/.5 Unit

Course Description

+College Credit Option

This course is designed as an analytic, skills-based introduction to sociology as an empirical social science. It emphasizes analytic reading and conceptual analysis. The readings are based on empirical research studies or are review articles of research in an area of sociological investigation. It is a writing-intensive course. This course introduces C. Wright Mills' classic notion of "the sociological imagination" and the promise of sociology; it encourages students to see and think about the social world, themselves and the relations between themselves and the social world in new ways. As the course progresses, students should obtain increasing skill in analytic reading and writing, sociological reasoning, empirical investigation and the ability to make empirical and conceptual generalizations about self and society in an increasingly global world.

Course Requirements/Recommendations

This course can be taken for 3 college credits through Syracuse University Project Advance by paying a tuition fee of \$115 per credit to SUPA. Tuition assistance and forms are available from SUPA at supa.syr.edu/tuition-assistance.

Requirement: Seniors or Academic Administrator's Approval

Recommendation: Students are successful in this course with above-average study, reading, research and writing skills.



World Languages/English as a New Language (ENL) Department

Requirements

- Students who enter high school are required to have one (1) unit of credit in a world language to earn a Regents Diploma. Students who did not pass a Checkpoint A Examination in Grade 8 must pass a high school world language course to fulfill the graduation requirement.
- Students pursuing a Regents Diploma with Advanced Designation must complete three (3) units of study of a world language and pass a Comprehensive Checkpoint B Examination.
- Students pursuing a Regents Diploma with Advanced Designation may select a five-unit pathway in the Arts or Career and Tech Education in lieu of a three-unit sequence in World Languages. HOWEVER, these students are still required to fulfill one (1) unit of high school credit in world languages to fulfill the graduation requirement.
- Students in grades 10-12 have the opportunity to begin study of German, Latin, and Mandarin Chinese in 2024-25. We plan to offer beginner courses in French, Spanish, and Mandarin Chinese in 2025-26.

World Languages Offered:

- Chinese
- French
- German
- Latin
- Spanish

Course Progressions

- Chinese 1, 2
- French 2, College French 3, College French 4, College French 5
- German 2, College German 3, College German 4, College German 5
- Latin 2, College Latin 3, College Latin 4, College Latin 5
- Spanish 2, College Spanish 3, College Spanish 4, College Spanish 5.

(+ HVCC tuition is approximately \$210, set by the college, and subject to change.)

College-bound students

Students planning to attend a 4-year college should strongly consider taking four years of language in high school. Proficiency in another language is highly useful and/or required for those anticipating pursuing careers in the following areas:

- Tourism/Hospitality
- Engineering
- Government/Politics
- Banking & Finance
- Art or Music
- Translation
- Teaching
- Journalism/Publishing
- Scientific Research

NYS Seal of Biliteracy

The NYS Seal of Biliteracy is a nationally recognized award for students who can demonstrate proficiency in English and at least one other world language, by meeting requirements set forth by the Seal of Biliteracy Committee. Successful candidates receive a designation on their high school transcript, a seal on their diploma, and a medal to wear at graduation. The NYSSB is an impressive statement of accomplishment to share with future employers and college admissions officers. For more information, visit the [Shen NYSSB website](#).



World Languages/ENL Department (continued)

Typical World Language Progressions

Program	GRADE 9	GRADE 10	GRADE 11	GRADE 12
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Note: These progressions are typical progressions; however, students may customize their progression for various reasons.

French	French 2	College French 3* (Culminates with Checkpoint B Exam required for Advanced Regents Diploma)	College French 4*	College French 5*
German	German 2	College German 3* (Culminates with Checkpoint B Exam required for Advanced Regents Diploma)	College German 4*	College German 5*
Latin	Latin 2	College Latin *3 (Culminates with Checkpoint B Exam required for Advanced Regents Diploma)	College Latin 4*	College Latin 5*
Spanish	Spanish 2	College Spanish 3* (Culminates with Checkpoint B Exam required for Advanced Regents Diploma)	College Spanish 4*	College Spanish 5*

Additional options for students who complete Checkpoint B in one language, and would like to study a second language (French 1-2, German 1-2, Latin 1-2, and Spanish 1-2 are typically offered on a rotating basis):

Chinese 1	➔	Chinese 2
French 1-2	➔	French 3
German 1-2	➔	German 3
Latin 1-2	➔	Latin 3
Spanish 1-2	➔	Spanish 3

*College Credit Option



World Languages/ENL Department (continued)

Courses

Latin Courses...

Latin 1-2 (NCAA Core)

1 Year/1 Unit

Course Description

This course is designed for students who wish to expand their academic background by studying Latin. They will complete two levels of Latin in this course to be prepared for College Latin 3. Reading, writing, listening and speaking skills, Greek and Roman mythology, as well as related areas of cultural awareness will be studied.

Course Requirements/Recommendations

Open to students in grades 10-12 who are successful in another world language course.

Prerequisite: Concurrent enrollment in another world language course or successful completion of Checkpoint B requirements in another world language. Transfer students with permission of the WL/ENL Academic Administrator.

Those students entering grade 10 who have never studied a world language and need to complete their unit of credit required for graduation may also take this course, with the permission of the WL/ENL Academic Administrator.

Note: This course will be offered during the 2024-2025 school year.

Latin 2 (NCAA Core)

1 Year/1 Unit

Course Description

Included in this course will be the continued study of vocabulary and the structure of the language as well as mythology and other areas of cultural awareness associated with the language.

Course Requirements/Recommendations

Latin 2 is for students who have completed the middle school Latin program.

A school final exam is administered in June.

College Latin 3 (NCAA Core)

(HVCC LATN101)

1 Year/1 Unit, +College Credit Option

Course Description

The course will include a more advanced study of the structural analysis of Latin with continued emphasis on Roman civilization and culture, and Roman and Greek mythology.

Course Requirements/Recommendations

Recommendation: A final average of not less than 75% in Latin 2 or Latin 1-2.

A Comprehensive Checkpoint B examination will be administered in June. Students must pass this exam in order to earn world language credit toward a Regents Diploma with Advanced Designation.



+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

College Latin 4 (NCAA Core)

(HVCC LATN 200)

*1 Year/1 Unit, +College Credit Option, *NYS Seal of Biliteracy pathway*

Course Description

This advanced course consists of a variety of components: etymology and word derivation, introduction to the Romance languages, Latin dialogues, Roman art and architecture, monuments of Ancient Rome, reading a Greek and a Latin play in translation, Latin literature, and mythology. Students will make connections between the classical world and modern western culture.

Course Requirements/Recommendations

Requirement: College Latin 3 and a passing grade on the Comprehensive Checkpoint B Examination. For HVCC enrollment, a final average of not less than 80% in College Latin 3 is required.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.

College Latin 5 (NCAA Core)

(HVCC LATN 201)

*1 Year/1 Unit, +College Credit Option, *NYS Seal of Biliteracy pathway*

Course Description

College Latin 5 will engage students in four major inquiries during the course of the year, all focusing on the impact of the ancient world on modern-day society and human nature. Roman authors and texts will be explored in depth, focusing on the specific structures and style. Scansion and figures of speech will be investigated in context to give deeper meaning to the passages read.

Course Requirements/Recommendations

Requirement: College Latin 4. In order to take this class for HVCC credit, a student must have successfully earned college credit for College Latin 4.

Recommendation: A final average of not less than 80% in College Latin 4.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.



World Languages/ENL Department (continued)

French Courses...

French 1-2 (NCAA Core)

1 Year/1 Unit

Course Description

This course is designed for students who wish to expand their academic background by studying French. They will complete two levels of French in this course to be prepared for College French 3. Reading, writing, listening and speaking skills, as well as Francophone culture will be studied.

Course Requirements/Recommendations

Open to students in grades 10-12 who are successful in another world language course.

Prerequisite: Concurrent enrollment in another world language course or successful completion of Checkpoint B requirements in another world language. Transfer students with permission of the WL/ENL Academic Administrator.

Those students entering Grade 10 who have never studied a world language and need to complete their unit of credit required for graduation may also take this course, with permission of the WL/ENL Academic Administrator.

Note: This course will NOT be offered during the 2024-25 school year. It will be offered again during the 2025-26 school year.

French 2 (NCAA Core)

1 Year/1 Unit

Course Description

This French course is for students who have completed the middle school program. Emphasis is on developing strong communication skills in listening, speaking, reading and writing. The culture of the Francophone world is explored as students study a variety of topics. Students may participate in the PEACE Program (Partners in Educational and Cultural Exchange), our exchange program with Lycée Genevoix in Montrouge, France.

Course Requirements/Recommendations

French 2 is for students who have completed the middle school French program.

A school final exam is administered in June.

College French 3 (NCAA Core)

(HVCC FREN 101)

1 Year/1 Unit, +College Credit Option

Course Description

As a continuation of the progression of courses begun in French, the goal of this course is to further develop communicative proficiency using current idiomatic French. There is continued practice in listening, speaking, reading and writing. French culture is taught through dialogues, readings and video presentations.

Course Requirements/Recommendations

Recommendation: A final average of not less than 75% in French 2 or French 1-2.

A Comprehensive Checkpoint B examination will be administered in June. Students must pass this exam in order to earn world language credit toward a Regents Diploma with Advanced Designation.



+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

World Languages/ENL Department (continued)

College French 4 (NCAA Core)

(HVCC FREN 200)

1 Year/1 Unit, + College Credit Option, *NYS Seal of Biliteracy pathway

Course Description

This advanced course offers instruction in advanced grammar and composition in conjunction with HVCC curriculum standards. Students will cover a variety of topics designed to meet their interests and talents. They will read short stories, newspaper and magazine articles, prepare frequent written and oral exposés, and watch and discuss video presentations. A study of one major literary work is required. The course is conducted in French. Students may participate in the PEACE Program (Partners in Educational and Cultural Exchange), our exchange program with Lycée Genevoix in Montrouge, France.

Course Requirements/Recommendations

Recommendation: A final average of not less than 80% in College French 3.

Requirement: College French 3 and a passing grade on the Comprehensive Checkpoint B Examination. For HVCC enrollment, a final average of not less than 80% in College French 3 is required.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.

College French 5 (NCAA Core)

(HVCC FREN 201)

1 Year/1 Unit, + College Credit Option, *NYS Seal of Biliteracy pathway

Course Description

College French 5 will advance and extend the students' communicative proficiency in speaking, listening, reading and writing. This course builds on students' previous knowledge to expand and refine their ability to express themselves in French, both orally and in writing. Culture continues to play a central role, as does reading. Students read a variety of short texts as well as a work chosen by the instructor. Students are introduced to the Hegelian method of argumentation, with the associated reading, writing, speaking and listening components all involved. Students are expected to understand the method and use it in French all year long.

Course Requirements/Recommendations

Recommendation: A final average of not less than 80% in College French 4.

Requirement: College French 4. In order to take this class for HVCC credit, a student must have successfully earned college credit for College French 4.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.



*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.

World Languages/ENL Department (continued)

German Courses...

German 1-2 (NCAA Core)

1 Year/1 Unit

Course Description

This course is designed for students who wish to expand their academic background by studying German. They will complete two levels of German in this course to be prepared for College German 3. Reading, writing, listening and speaking skills, as well as the culture of German speaking areas will be studied.

Course Requirements/Recommendations

Open to students in grades 10-12 who are successful in another world language course.

Prerequisite: Concurrent enrollment in another world language course or successful completion of Checkpoint B requirements in another world language. Transfer students with permission of the WL/ENL Academic Administrator.

Those students entering grade 10 who have never studied a world language and need to complete their unit of credit required for graduation may also take this course, with permission of the WL/ENL Academic Administrator.

Note: This course will be offered during the 2024-25 school year.

German 2 (NCAA Core)

1 Year/1 Unit

Course Description

For students who have completed the middle school German program, this course offers further study of German language and culture with continuing emphasis on communicative skills in listening, speaking, reading and writing.

Course Requirements/Recommendations

German 2 is for students who have completed the middle school German program.

A school final exam is administered in June.

College German 3 (NCAA Core)

(HVCC GERM 101)

1 Year/1 Unit, +College Credit Option

Course Description

The goal of the College German 3 course is to further develop communicative proficiency using current idiomatic German. There is continued practice in listening, speaking, reading and writing. German culture is embedded throughout thematic units.

Opportunities for a German Exchange (German American Partnership Program) are available at the end of German 2 or 3.

Course Requirements/Recommendations

Recommendation: A final average of not less than 75% in German 2 or German 1-2.



A Comprehensive Checkpoint B examination will be administered in June. Students must pass this exam in order to earn world language credit toward a Regents Diploma with Advanced Designation.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

College German 4 (NCAA Core)

(HVCC GERM 200)

*1 Year/1 Unit, + College Credit Option, *NYS Seal of Biliteracy Pathway*

Course Description

This advanced course is designed to offer enrolled students a study of a variety of topics in order to meet their interests and talents. This includes a grammar review and writing assignments in combination with the study of German literature, art, music, history and contemporary social issues. Audio/video presentations and guest speakers supplement the curriculum.

Course Requirements/Recommendations

Requirement: College German 3 and a passing grade on the Comprehensive Checkpoint B Examination. For HVCC enrollment, a final average of not less than 80% in College German 3 is required.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.

College German 5 (NCAA Core)

(HVCC GERM 201)

*1 Year/1 Unit, + College Credit Option, *NYS Seal of Biliteracy Pathway*

Course Description

College German 5 will advance and extend the students' communicative proficiency in speaking, listening, reading and writing. This course builds on students' previous knowledge to expand and refine their ability to express themselves in German, both orally and in writing. Culture continues to play a central role, as does reading. Students read a variety of short texts as well as a work chosen by the instructor.

Course Requirements/Recommendations

Recommendation: A final average of not less than 80% in College German 4.

Requirement: College German 4. In order to take this class for HVCC credit, a student must have successfully earned college credit for College German 4.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.



World Languages/ENL Department (continued)

Spanish Courses...

Spanish 1 (NCAA Core)

1 Year/1 Unit

Course Description

This course is designed for students who did not complete two years of language study in grades 7 and 8, and transfer students who have not yet earned the one high school credit in second language required for a Regents diploma. The objectives of the course are to develop basic communication skills in Spanish and to present to students the varieties of culture of the Hispanic world. A broad variety of vocabulary and structures of the language will prepare students to use Spanish for the purposes of basic oral and written communication. Elements of the geography, history and culture of the Spanish-speaking world are included.

Course Requirements/Recommendations

A school final examination will be administered in June.

Spanish 1-2 (NCAA Core)

1 Year/1 Unit

Course Description

This course is designed for students who wish to expand their academic background by studying Spanish. They will complete two levels of Spanish in this course to be prepared for College Spanish 3. Reading, writing, listening and speaking skills, as well as Hispanic culture will be studied.

Course Requirements/Recommendations

Open to students in grades 10-12 who are successful in another world language course.

Prerequisite: Concurrent enrollment in another world language course or successful completion of Checkpoint B requirements in another world language. Transfer students, and those students entering Grades 9-12 who have never studied a world language and need to complete their unit of credit required for graduation, may also take this course with permission of the WL/ENL Academic Administrator.

*Note: This course will be offered at High School West in the 2024-25 school year, as an option for students entering grade 9 who have never studied a world language and need to complete their unit of credit required for graduation.

Spanish 2 (NCAA Core)

1 Year/1 Unit

Course Description

This course is for students who have successfully completed the middle school Spanish program. The emphasis in this course is on continued development of communicative skills: listening, speaking, reading and writing, and the study of Hispanic culture.

Course Requirements/Recommendations

Spanish 2 is for students who have completed the two-year middle school Spanish program, or Spanish 1 in grade 9.

A school final exam is administered in June.



World Languages/ENL Department (continued)

College Spanish 3 (NCAA Core)

(HVCC SPAN 101)

1 Year/1 Unit, +College Credit Option

Course Description

College Spanish 3 is designed for the student who has successfully completed Spanish 2 or 1-2. Its goal is the development of communicative proficiency using current idiomatic Spanish. There is continued practice in listening, speaking, reading and writing. Spanish culture is taught through dialogues, readings, and video presentations.

Course Requirements/Recommendations

Recommendation: A final average of not less than 75% in Spanish 2 or Spanish 1-2.

A Comprehensive Checkpoint B examination will be administered in June. Students must pass this exam in order to earn world language credit toward a Regents Diploma with Advanced Designation.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

College Spanish 4 (NCAA Core)

(HVCC SPAN 200)

*1 Year/1 Unit, + College Credit Option, *NYS Seal of Biliteracy Pathway*

Course Description

College Spanish 4s is a course designed for the student who has successfully completed College Spanish 3 and wishes to continue the study of Spanish at an advanced level. Students will read a variety of literary works, discuss films, and prepare oral and written reports and projects. There is further instruction in grammar and composition. The course of study is challenging and demands advanced use of the language while allowing for creativity of expression and utilizing a variety of resources. The course is conducted in Spanish.

Course Requirements/Recommendations

Requirement: College Spanish 3 and a passing grade on the Comprehensive Checkpoint B Examination. For HVCC enrollment, a final average of not less than 80% in College Spanish 3 is required.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

A workbook is required for this course.*

*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.



World Languages/ENL Department (continued)

College Spanish 5 (NCAA Core)

(HVCC SPAN 201)

1 Year/1 Unit , + College credit option, *NYS Seal of Biliteracy Pathway

Course Description

College Spanish 5 will advance and extend the students' communicative proficiency in speaking, listening, reading and writing. This course builds on students' previous knowledge to expand and refine their ability to express themselves in Spanish, both orally and in writing. Culture continues to play a central role, as does reading. Students read a variety of short texts as well as a work chosen by the instructor. Additionally, Spanish culture and language will be explored through the study of films from the Spanish-speaking world.

Course Requirements/Recommendations

Requirement: College Spanish 4. In order to take this class for HVCC credit, a student must have successfully earned college credit for College Spanish 4.

Recommendation: A final average of not less than 80% in College Spanish 4.

+As an option, students are eligible to receive college credit through the Hudson Valley Community College. In conjunction with HVCC standards and with a final average of C and tuition payment of \$70 per credit hour, students will receive 3 credits on an HVCC transcript. Students who qualify for free/reduced lunch may be eligible for a scholarship through HVCC to waive the full cost of tuition.

*Successful completion of this course will fulfill **some** of the required components of the NYS Seal of Biliteracy Diploma Designation.

World Languages/ENL Department (continued)

Chinese Courses...

Chinese 1 (NCAA Core)

1 Year/1 Unit

Course Description

Designed for students who would like to begin the study of Mandarin Chinese, this course is an introduction to the Chinese language and culture. Students will develop basic communication skills in the Mandarin dialect of Chinese and learn a minimum number of modern Chinese characters. Study of the geography, history and the culture of China is integral to this course and serves as an introduction to the Eastern perspective. This rigorous course will be available to those students who have successfully completed the Checkpoint B Examination in another language, or those who are concurrently enrolled in an intermediate-level language course.

Course Requirements/Recommendations

Open to students in grades 10-12

A school final examination will be administered in June.

Prerequisite: Concurrent enrollment in another world language course OR successful completion of Checkpoint B requirements in another world language.



Chinese 2 (NCAA Core)

1 Year/1 Unit

Course Description

This course offers a further study of Chinese with continued emphasis on strengthening skills in listening and speaking, with an increased emphasis on reading and writing.

Course Requirements/Recommendations

Open to students in Grade: 11-12

A school final examination will be administered in June.

Recommendation: A final average of not less than 75% in Chinese I. Heritage speakers of Chinese will be considered with permission of the WL/ENL Academic Administrator.

English as a New Language (ENL) Courses...

English as a New Language (ENL)

1 Year/1 Unit

Course Description

All students who come from a home in which a language other than English is spoken are screened according to Part 154 of the Commissioner's Regulations. Students who score below a pre-determined score on the NYSITELL exam are enrolled in ENL classes based on their proficiency level. Students take the New York State English as a Second Language Achievement Test (NYSESLAT) in May to determine continued eligibility. The curricular emphasis is on building reading skills, listening comprehension, oral expression, and writing for literary and technical purposes. These skills will enhance students' ability to use English, allowing them to fully participate in a rigorous academic environment.

Integrated ENL/ELA

1 Year/1 Unit

Course Description

This course combines grade-level English curriculum with English as a New Language strategies. This course helps students to develop the literacy skills needed for success in college and career, and to succeed on the NYS Comprehensive English Regents exam.



Capital Region BOCES Career & Technical School

Students earn 4 Units for each year of study in one Career & Tech area.

CRB Programs

***Complete Course Guides Are Available In The Counseling, College & Career Center**

Auto Body Collision and Auto Body Refinishing Technology

Instruction in repairing, refurbishing and painting damaged vehicles. Hands-on experience prepares the students for an entry-level position in the auto body field. The two main areas of emphasis are refinishing and collision repair.

Cosmetology

A two-year program which offers instruction and practical experience in the skills necessary to work in a salon. Since 1,000 instructional hours are required to take the licensure examination, students must attend a summer session after senior year. Successful completion of the program qualifies students to take the New York State Cosmetology Licensure Examination.

Criminal Justice

A two year program focusing on civil and criminal law, emergency tactics, patrol function, crime prevention and detection equipment, fingerprinting, investigation methods, client contract and business management. They learn about police, court and prison systems, operation of security and protection programs and security procedures in public, commercial and residential settings.

Culinary Arts & Hospitality

A program certified by the National Restaurant Association and the American Culinary Federation and features the ProStart and ACF ACCESS curricula. Students learn about nutrition, food preparation and dining room operation and can earn the nationally recognized ServSafe Sanitation certification.

Digital Media Design

For students interested in web design, multimedia communications, graphic design and other related areas. During the two-year program students develop professional level skills in Adobe software applications. They learn to apply design processes and design theory in order to improve the quality and consistency of their work. In addition to digital output, the classroom lab provides specialty printing experiences including wide format poster and banner printing, dye sublimation printing on metal, ceramics and textile as well as t-shirt transfer printing. Students demonstrate their technical abilities through the Adobe Certified Expert program. In a two-year period, it is possible for students to earn up to five industry recognized certifications.

Early Childhood Education

Students learn the basics and methodology of child development and early childhood education, while gaining a solid foundation in classroom arrangement, classroom management and curriculum development for infants/toddlers/preschoolers and young children. Students will also learn how to communicate and work with parents/guardians and staff. Through on-site work-based learning in a daycare center, students also gain formal childcare hours required to apply for Child Development Associate (CDA) certification.

Electrical Trades

Students learn fundamental skills in electrical theory, and through classroom instruction and hands-on shop lessons, they can become successful residential wiring professionals. In each theory class and lab, students construct the circuits and discuss, gaining skills and experience as they move from residential into commercial and industrial wiring. The materials, meters and methods used in Electrical Trades give students an in-depth understanding of their field and the knowledge needed to work with the latest environmentally friendly technologies.



Game Design and Implementation

This is a two-year program for students interested in the creative worlds of video game design, 3-D modeling, and computer programming. Students learn the history of games from ancient times to present. They create board games, card games and dice games while learning the fundamentals of Game Design. Students create digital games using Game Maker software, GameSalad, and Unity. Students will explore various art concepts during the first year and 3-D modeling during the second year. Finally, students will design their own video games in groups, as well as create a virtual video game design company.

Global Fashion Studies

Students learn about garment theory, textiles, fashion and apparel manufacturing, sales and promotion, and college and career opportunities. First-year students focus on merchandising; second-year students learn about marketing and master National Retail Federation customer service standards. The course features specialized software, hands-on projects, lectures and guest speakers, videos, field trips, job shadowing and internships, and community service. Through a year-long entrepreneurship project, students design a product, conduct market research and then produce and sell their creations. They create a professional portfolio to showcase their best work.

HVAC/R-Heating, Ventilation, Air Conditioning and Refrigeration

HVAC instructs students in the installation and repair of residential and commercial heating, ventilation, air conditioning and refrigeration systems. Students are prepared for certification by the Environmental Protection Agency (EPA), and they develop the mechanical skills and theoretical background necessary to enter the workforce or college.

Manufacturing & Machine Tech

Students focus on skilled manufacturing, machining and advanced manufacturing, and learn how products are taken from concept to consumer using the latest technology to compete in a global marketplace. They learn computer-aided design (CAD), engineering drawing and sketching and a number of computer programs used in today's highly technical manufacturing operations.

Diesel Technology

Students work on late-model trucks and diesel engines, learning about electrical and electronic theory, computerized control systems, steering, suspension, chassis and braking systems. They also learn about alternative fuels including biodiesel, and about hybrid vehicle technology. Automotive Service Excellence (ASE)-style testing during the Medium/Heavy Duty Truck Repair program prepares students to pursue certification after graduation. Upon completion, they may seek employment as entry-level technicians or advance their education and training. Medium/Heavy Duty Truck Repair at Career & Tech is the only high school-level program in the state to earn certification by the National Automotive Technician Education Foundation/Institute for Automotive Service Excellence (NATEF/ASE).

Network Technology

Network cabling technicians install the networks, wires and cables that connect computers, telephones and energy management systems. This program utilizes C-Tech, an international workforce development company specializing in curriculum development, to provide industry recognized certificates. Students use these certificates to begin careers in telecommunication audio/visual and telephone industries, or have a head start on careers as they pursue further education.

Nurse Assistant/Home Health Aide/Patient Care Associate/CNA

Students in year one earn certification as Home Health Aide(HHA) and Personal Care Aide (PCA) and in year two, certification as a Nurse Assistant (NA). Students also earn American Heart Association BLS/CPR and First Aid certifications and gain valuable hands-on experience in healthcare and direct support facilities.

Sterile Processing Technician

Sterile processing technicians decontaminate, inspect, package and sterilize equipment and devices used in the healthcare environment. These items range from complex devices to simple, hand-held surgical instruments. Sterile Processing Technicians serve a vital role in the healthcare industry, combating the spread of hospital-borne illnesses, as well as diseases. Sterile Processing Technicians find employment in hospitals, ambulatory surgical centers, medical laboratories, birth centers and other facilities where sterilized equipment is needed.



Welding & Metal Fabrication

Students learn the skills and techniques necessary for success in a career that values well-trained, experienced workers. They learn shielded metal arc welding (stick); MIG, flux-cored and TIG welding; and automated Orbital TIG welding. They also learn about the operation of welding and metal fabrication machinery, blueprint reading, clean room environments and shop theory. Students may earn college credits and take multiple American Welding Society welder certification tests free of charge.

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Shenendehowa High School

970 Route 146
Clifton Park, New York 12065-3688

Principal,
Ron H. Agostinoni

Associate Principals,
Michael Gutchell
Cathleen Drago
Lucas LaBarre
Stephen Smith

Assistant Principals,
Jennifer Lee-Alden
Kristen Lennon-McMahan
Jackie Michalski
Dustin Verga

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Superintendent, Dr. L. Oliver Robinson

Board of Education

Naomi Hoffman, President
Jason DiGianni, Vice President
Petra Holden
Gusta Miller
Stacey Pflomm
Deanna Stephenson
Tom Templeton