

# Dansville

## High School



## 2021-2022

## Course Description Book

# TABLE OF CONTENTS

	<b>Page</b>
Steps in the Course Selection Process	2
Graduation Requirements & Promotion and Retention	3
Diploma/Credential Options & Designations	4
Course Designations & Dual Credit Courses	5
Art	6
Business	9
English Language Arts	11
Family and Consumer Science (FACS)	13
Languages Other Than English (LOTE)	14
Mathematics	15
Music	17
Physical Education and Health	18
Science	19
Social Studies	21
Technology	23
Vocational Education	25

# COURSE SELECTION PROCESS

**Step One:** February - The Course Description Guide is made available to all students and their families by being posted online.

**Step Two:** Late February through March - Students will meet individually with their school counselor to complete course requests for the following school year. A course verification form is sent home with each student for parent input and approval. Parents are invited to contact their child's school counselor to have any questions answered.

**Step Three:** April - Teacher recommendations for advanced classes are given to the counselors. These recommendations may be based on past achievement and test data.

**Step Four:** May - Course requests are tallied for the entire school. These enrollment figures are used by department heads and administrators to make final decisions about course offerings and the number of sections required for the coming school year. Based on this information, the master schedule is created.

## ADD/DROP PERIOD

Students are **HIGHLY** discouraged from dropping courses. However, in rare instances, students may participate in a drop conference by following the steps below. Any course that is dropped within the Fall time frame will not be listed on the student's transcript. If there is ever a time when a course is dropped after this drop/add period, the student's transcript will show the course as withdrawn. Students will be able to change levels for a class at any time, with a recommendation from the teacher and parent. An example would be if a student is in Honors English 10 and is struggling, the student may be moved to English 10 without the change being shown on the student's transcript. When a student changes levels, the grade from the course he/she is dropping will remain on the student's transcript for the period of time he/she was in the course. If a student changes courses in the middle of a marking period, the teachers of the dropped course and the new course will determine the grade for that marking period.

To drop or add a course before school begins, and through the first 5 days of classes:

- A student or parent may call or email the student's school counselor to process a course drop or add.
- Only changes that will maintain a course minimum and not affect students' graduation credits will be approved.
- Changes that create an overload in a class will not be permitted.
- Certain course changes will require parent permission.
- A student may drop or add a full-year course after the 5<sup>th</sup> day of the first semester:
- If a student wishes to drop a full-year course between the 6<sup>th</sup> and 10<sup>th</sup> days of the first semester or during the last week of the first semester, he/she must schedule a drop conference and follow the procedures below.
- Students may also drop or add a half-year course after the 5<sup>th</sup> day of the second semester:
- If a student wishes to drop a half-year course between the 6<sup>th</sup> and 10<sup>th</sup> days of the second semester, he/she must schedule a drop conference and follow the procedures below.

## DROP CONFERENCE PROCEDURE

1. In order to drop/add a course after school begins, students must meet with their counselor to discuss the rationale for the change.
2. The school counselor will make arrangements for the student and parent/guardian to attend a "Course Change Conference".
3. During the Course Change Conference, the building administrator(s), school counselor, and teacher of the course to be dropped will meet with the student and parent/guardian to discuss the possible course change. **A parent/guardian MUST ATTEND THIS MEETING in order to consider a course change.**
4. A series of questions will be asked to determine the appropriateness of the course change, as well as, the impact on the student's future educational program.
5. After the Course Change Conference is concluded, a decision will be made at the sole discretion of building administration, as to whether the change will be permitted.

# GRADUATION REQUIREMENTS & PROMOTION AND RETENTION

## GRADUATION REQUIREMENTS

In order to earn a high school diploma, students must earn a minimum of 22 credits.  
The credits and exams required to earn a diploma are listed below:

<b>REGENTS DIPLOMA</b>		
Required Courses	Required Credits	Required Exams
English Language Art	4	1
Languages Other Than English (LOTE)	1	Checkpoint A
Social Studies	4	1
Mathematics	3	1
Science	3	1
Electives	3.5*	0
Art/Music	1	0
Physical Education	2	0
Health	0.5	0
Pathway	0	1
<b>TOTAL</b>	<b>22</b>	<b>6</b>

<b>REGENTS DIPLOMA with ADVANCED DESIGNATION</b>		
Required Courses	Required Credits	Required Exams
English Language Art	4	1
Languages Other Than English (LOTE)	3	Checkpoint B
Social Studies	4	1
Mathematics	3	3
Science	3	2
Electives	1.5*	0
Art/Music	1	0
Physical Education	2	0
Health	0.5	0
Pathway	0	1
<b>TOTAL</b>	<b>22</b>	<b>9</b>

\*Beginning with the Class of 2022, Dansville High School will require students to attend and receive credit for Career and Financial Management OR Personal Money Management for graduation.

## PROMOTION AND RETENTION

Accumulation of credits towards New York State graduation requirements begins in the ninth grade.  
Promotion to the next grade level is determined by the number of credits the student has earned during the school year.

<b>Grade 9 to Grade 10</b>	5.5 credits
<b>Grade 10 to Grade 11</b>	11 credits (or an approved plan to graduate with his/her cohort/early)
<b>Grade 11 to Grade 12</b>	16.5 credits (or an approved plan to graduate with his/her cohort/early)
<b>Grade 12 to Graduate/Diploma</b>	22 credits in required coursework

## SUMMER SCHOOL

Some remedial and accelerated classes are offered during the summer school program. To take a remedial class, the student must have earned at least 55% in the class they're repeating. To take an accelerated course, the student must have met any pre-requisite requirements.

### CALCULATION OF GRADE/AWARDING OF CREDITS

If a student is making up a full year class during summer school, the final summer school grade will replace the two lowest quarter grades in the school year, and an average of the grades will be awarded. For example:

- ❖ Student receives the following grades during the school year: Qtr 1-60, Qtr 2-60, Qtr 3-50, Qtr 4-50 = Avg of 55 Overall
- ❖ Student receives a grade of 70 in summer school
- ❖ The new average will be: Qtr 1-60, Qtr 2-60, Qtr 3-70, Qtr 4-70 = Avg of 65 Overall

If you are taking a class for the first time in summer school (half credit classes or double English 12) your summer school grade will be your final grade for the course.

# DIPLOMA/CREDENTIAL OPTIONS & DESIGNATIONS

There are multiple pathways to graduation for students that include diplomas and credentials. A summary of each diploma type can be found at <http://www.p12.nysed.gov/ciai/gradreq/Documents/DiplomaandCredentialSummary1.18.pdf>.

## DIPLOMA & CREDENTIAL TYPES

Please refer to the Graduation Requirements grid on the previous page and/or visit the link above for details as to how to attain each type of diploma and/or credential.

DIPLOMA TYPES
Regents
Regents w/Advanced Designation
Local

CREDENTIAL TYPES
Career Development & Occupational Studies
Skills & Achievements

## ADDITIONAL DESIGNATIONS

### NEW YORK STATE DESIGNATIONS

Please refer to the Graduation Requirements grid on the previous page and visit the link listed next to each NYS Designation for complete details and any additional requirements that may be needed.

Career & Technical Endorsement	<p>Completes all credit and assessment requirements as listed for a specific diploma type. Successfully completes an approved career and technical education program, as well as the 3 part technical assessment designated for the particular approved career and technical education program which the student has completed.</p> <p style="text-align: center;"><a href="http://www.p12.nysed.gov/part100/pages/1005.html#carteched">http://www.p12.nysed.gov/part100/pages/1005.html#carteched</a></p>
Honors	<p>Meets all assessment requirements for a Regents Diploma or Regents Diploma with Advanced Designation with a computed average score of 90 or better (no more than 2 Department approved alternatives may be substituted and will not count in the computed average).</p> <p style="text-align: center;"><a href="http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors">http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors</a></p>
Mastery in Maths	<p>Meets all assessment requirements for a Regents Diploma with Advanced Designation and, in addition, scores 85 or better on each of 3 Regents examinations in Mathematics.</p> <p style="text-align: center;"><a href="http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD">http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD</a></p>
Mastery in Science	<p>Meets all assessment requirements for a Regents Diploma with Advanced Designation and, in addition, scores 85 or better on each of 3 Regents examinations in Science.</p> <p style="text-align: center;"><a href="http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD">http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD</a></p>
Seal of Bilingualism	<p>The New York State Seal of Bilingualism (NYSSB) recognizes high school graduates who have attained a high level of proficiency in listening, speaking, reading, and writing in one or more languages in addition to English.</p> <p style="text-align: center;"><a href="http://www.nysed.gov/world-languages/new-york-state-seal-bilingualism-nyssb">http://www.nysed.gov/world-languages/new-york-state-seal-bilingualism-nyssb</a></p>

### DANVILLE HIGH SCHOOL DESIGNATIONS

Please refer to the Graduation Requirements grid on the previous page and visit the [Dansville Central School District's Board of Education Policy Manual](#) for complete details.  
 "In the interest of encouraging and recognizing outstanding academic achievement, DCS awards the following designations:"

Valedictorian	<p>The valedictorian shall be the student with the highest average as computed at the end of seven semesters of high school. To be considered for this honor, a student must earn credit in at least two AP level classes. In the event of a tie for valedictorian, co-valedictorians shall be honored.</p>
Salutatorian	<p>The salutatorian shall be the student with the second-highest average as computed at the end of seven semesters of high school. To be considered for this honor, a student must earn credit in at least two AP level classes. In the event of a tie for salutatorian, co-salutatorians shall be honored.</p>
Gold Robe Honors Senior	<p>An "Honors Senior" shall be a student who graduates with a 90.00% overall grade point average or is in the top 10% of the class, whichever population is greater. This student has the privilege of wearing a gold-colored robe at the graduation ceremony. The GPA used for this honor is determined after 7 semesters (or 5 semesters for early graduates).</p>

# COURSE DESIGNATION & DUAL CREDIT COURSES

## COURSE DESIGNATIONS



**Regents Credit Course:** Students must pass a Regents Exam with a score of 65% or higher to earn a Regents Course Credit.



**Honors Designation:**

These are courses meant to challenge students with increased rigor. These courses are designed to prepare students who aspire to earn a bachelor's degree. **Students will receive an additional weight of 5% added to their class average. (Ex: 90% x 1.05= 95%)**



**Advanced Placement:**

These are college-level courses that provide a rigorous learning environment that will help prepare students to take the AP examination. **Students will receive an additional weight of 10% added to their average. (Ex: 90% x 1.1= 99%)**



**Genesee Community College Credit Courses:**

Dansville High School has partnered with Genesee Community College to offer dual credit classes that enhance the high school learning experience and help to prepare students for the transition to college and careers.

## DUAL CREDIT COURSES

Students at Dansville High School have multiple opportunities to earn college credit while enrolled in high school classes. These dual credit classes enhance the high school learning experience and help to prepare students for the transition to college and careers.

Dansville Course Name	AP Exam	GCC Course Name	GCC Credits	Semester
Algebra III		GCC MAT 136	3	Full Year
AP Biology	X			Full Year
AP Calculus AB	X	GCC MAT 141	4	Full Year
AP Chemistry	X	GCC CHE 102	4	Full Year
AP English Language and Composition	X	GCC ENG 101	3	Full Year
AP English Literature & Composition	X	GCC ENG 105	3	Full Year
AP Government	X	GCC POS 101	3	Fall
AP Macroeconomics	X			Spring
AP Modern World History	X	GCC HIS 101 & 102	3 each semester	Full Year
AP Physics	X	GCC PHY 121	4	Full Year
AP Statistics	X	GCC MAT 129	3	Full Year
AP Studio Art	X			Full Year
AP United States History	X	GCC HIS 203 & 204	3 each semester	Full Year
Applied Algebra 2/Trig		GCC MAT 102	3	Full Year
Business Computer Applications		GCC IS 102	3	
CAD I		GCC ERG 118	3	Fall
CAD II/Architecture		GCC EGR 103	3	Spring
Career & Financial Management (CFM)		GCC CEP 101	3	Fall & Spring
Chemistry		GCC CHE 101	4	Full Year
Entrepreneurship		GCC BUS 101	3	Full Year
General Physics- How Things Work		GCC PHY 100	3	Full Year
Honors Personal Money Management		GCC BUS 110	3	Fall
Honors Pre-Calculus		GCC MAT 140	4	Full Year
Physics		GCC PHY 121	4	Full Year
Statistics		GCC MAT 129	3	Full Year

# ART

Department Head: Greg McMaster

## Beginning Art Courses

### Studio Art

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 7095  
Length: Full Year  
Credit: 1  
Examination: Local

This is a **beginning level** art course aimed at fostering an understanding of art theory, art criticism, art history, and art media. It explores a variety of media including watercolor, pencil, pastel, paint, and three-dimensional works. The Elements of Art (line, color, shape, value, form, space, texture) and the Principles of Design (balance, movement, contrast, rhythm, pattern, unity, and emphasis) are stressed in this course. This course is a prerequisite for all other art classes and it fulfills a student's one year of fine art credit to graduate. **A minimum grade of 75% is a prerequisite for all intermediate level classes.**

### Arts Exploratory

Grade: 9-12  
Prerequisite: Recommendation from Art Teacher  
Recommended: N/A

CRN: 7015  
Length: Full Year  
Credit: 1  
Examination: Local

This **beginning level** art course has a focus on the exploration of materials, learning basic art vocabulary, and developing motor skills within the art room. Students will focus on technical skills and improved fine motor skills and coordination. Adaptive materials, as well as input from OT and PT supports, will maximize benefits for students who may need extra support. Students may take this course consecutively over multiple years, as course content is modified to meet the specific needs of the student in the given year.

## Intermediate Level Art Courses

### Drawing & Painting

Grade: 10-12  
Prerequisite: Studio in Art 75% or Higher  
Recommended: N/A

CRN: 7070  
Length: Full Year  
Credit: 1  
Examination: Local

An **intermediate-level** of art that develops a foundation of exploratory experiences in drawing and painting. The class focuses on increasing visual literacy and provides students with a foundation of drawing and painting skills, creative problem solving, and idea development. Exploration of various media, techniques, and styles is stressed. Colored and traditional pencil, chalk, pen, and ink are used. Mastery of drawing leads to painting with watercolor, tempera, and acrylic. The Elements and Principles of Design are emphasized with mastery and experimentation. Each student is required to keep a sketchbook as a requirement of this course.

### Studio in Art History

Grade: 10-12  
Prerequisite: Studio in Art 75% or Higher  
Recommended: N/A

CRN: 7097  
Length: Full Year  
Credit: 1  
Examination: Local

This **intermediate-level** course will introduce students to art through both a hands-on and historical context. Beginning with Ancient Art and continuing through contemporary art, students will gain an understanding of artmaking by answering such questions as: "What music was being made at the time that painting was created? What historical events may have influenced artwork at the time? What scientific and mathematical discoveries were being made at the time that might have inspired the artist?" As students work through the timeline of art history, they will stop intermittently to create artwork based on the art movements being explored.

### Mixed Media

Grade: 10-12  
Prerequisite: Studio in Art 75% or Higher  
Recommended: N/A

CRN: 7080  
Length: Full Year  
Credit: 1  
Examination: Local

An **intermediate-level** art course aimed at teaching students how to combine traditional and alternative materials to create artwork. Students will have access to a variety of 2D and 3D media: from paint and pencil to fabric and metal. Techniques explored will include bookmaking, found object sculpture, fiber arts, collage, and more! There is an emphasis on the exploration of materials, idea development, and craftsmanship.

### Public Art I

Grade: 10-12  
Prerequisite: Studio in Art 75% or Higher  
Recommended: N/A

CRN: 7075  
Length: Full Year  
Credit: 1  
Examination: Local

An **intermediate-level** art course, which will focus on the design and creation of public art including murals, sculptures, advertisements, mosaics, posters, and more. Students will work with other departments and staff members who are looking to "commission" work for the school. There will be an emphasis on working with a client and focusing on the audience of the work while creating an aesthetically pleasing piece of art. **A minimum grade of 85% is a prerequisite to take Public Art II.**

# ART

## Ceramics I & II

Grade: 10-12

Prerequisite: Studio in Art 75% or Higher

Recommended: N/A

CRN: I- 7020, II- 7030

Length: Fall/Spring

Credit: .5/.5

Examination: Local

Both courses are **intermediate-level** art classes.

\*\* Ceramics I is offered to allow students to gain mastery and appreciation of clay, both as a natural element and a mode of creative expression. It also introduces materials and basic clay hand-building techniques such as coil, slab, drape, and pinch.

\*\* Ceramics II is a continuation of Ceramics I, aimed at providing students the opportunity to develop greater mastery of technique through the completion of more difficult projects. The wheel throwing technique will be taught at this time.

## Contemporary Crafts

Grade: 10-12

Prerequisite: Studio in Art 75% or Higher

Recommended: N/A

CRN: 7110

Length: Half Year

Credit: .5

Examination: Local

An **intermediate-level** art class, which will focus on the theory that form follows function. This class will build on a wide range of art concepts through the exploration of media such as papermaking, fibers, jewelry, book arts, mosaic, and more. Students will create works that reference and reflect on historical, multicultural, and personally relevant themes.

## Digital Art I & II

Grade: 10-12

Prerequisite: Studio in Art 75% or Higher

Recommended: N/A

CRN: I- 7113, II- 7114

Length: Fall/Spring

Credit: .5/.5

Examination: Local

Both courses are **intermediate-level** art classes.

\*\* Digital Art I focuses on new media and computer-based artwork. Students will have the chance to explore their creative ideas through technology. This course will explore concepts ranging from introductory animation skills to photo editing and manipulation to advertising and marketing design. Digital Art I focuses on mastering the tools within Adobe Photoshop to execute photo editing, character design, and basic animation skills.

\*\* Digital Art II introduces students to more complex Adobe Creative Cloud apps - including Illustrator and Animate.

## Digital Photography I & II

Grade: 10-12

Prerequisite: Studio in Art 75% or Higher

Recommended: N/A

CRN: I- 7050, II- 7060

Length: Fall/Spring

Credit: .5/.5

Examination: Local

Both courses are **intermediate-level** art classes.

\*\* Digital Photo I focuses on the art of capturing images with a camera. Digital Photo I is intended to develop an understanding of the technical and aesthetic foundations of digital photography. Topics will include camera functions, using light, understanding subject matter, and creating successful compositions. Students will also learn how to edit their work and how to display their work in a variety of ways. There is an emphasis on developing a strong personal aesthetic while gathering a breadth of knowledge.

\*\* Digital Photo II allows students to go more in-depth within specific areas of interest.

## Visual Books

Grade: 10-12

Prerequisite: Studio in Art 75% or Higher

Recommended: N/A

CRN: 7076

Length: Half Year

Credit: .5

Examination: Local

An **intermediate-level** art class, which will introduce students to the traditions and techniques of the handmade book. Types of books included pamphlet stitch, Coptic stitch, French stitch, Japanese stab binding, among others. Individual and group artists' book projects will be included in the course.

## Advanced Level Art Courses

### Public Art II

Grade: 11-12

Prerequisite: Public Art I 85% or Higher

Recommended: N/A

CRN: 7074

Length: Full Year

Credit: 1

Examination: Local

An **advanced level** art course, which will focus on the design and creation of public art, including murals, sculptures, advertisements, mosaics, posters, and more. This course builds upon the skills and knowledge gained in Public Art I and focuses on student-led development and execution of works of arts. Students will be responsible for working with other departments and staff members who are looking to "commission" work for the school. There will be an emphasis on managing fellow students in order to execute works of art that meet the high standards of the course, and district.



# ART

## Advanced Art – 2D

Grade: 11-12

Prerequisite: Drawing and Painting 85% or Higher

Recommended: N/A

CRN: 7120

Length: Full Year

Credit: 1

Examination: Local



A PRE-AP advanced level course in which students will work with drawing, painting, and mixed media materials in more depth. This course builds on the skills learned in 8<sup>th</sup> grade, Studio Art, and Draw/Paint. This course is more independent than other art electives and will push students to develop their skills in preparation for AP Studio Art. It is recommended that students consult with their art teacher prior to signing up for this course.

## Advanced Art – 3D

Grade: 11-12

Prerequisite: Ceramics I & II 85% or Higher

Recommended: N/A

CRN: 7130

Length: Full Year

Credit: 1

Examination: Local



An advanced level art course in which students will work more in-depth with clay. This course will allow students to work more independently than other art electives, giving students the opportunity to focus on developing their own artistic voices. It is recommended that students consult with their art teacher prior to signing up for this course.

## AP Art and Design - Drawing

Grade: 12

Prerequisite: Adv. Art 2-D 85% or Higher, Must Complete Summer Work

Recommended: N/A

CRN: 7095AP

Length: Full Year

Credit: 1

Examination: AP Portfolio Exam



The culminating level of Art offered at DHS, this course is recommended for students who plan to continue on in art following high school or highly motivated students interested in earning college credit for the art course. This is a fast-paced course and includes several summer assignments prior to the school year. At the end of the course, students will submit a portfolio of work to the College Board for review as the final exam for the course. It is recommended that students consult with their art teacher prior to signing up for this course.

<b>VISUAL ARTS DEPARTMENT</b>		
<b>BEGINNING</b>	<b>INTERMEDIATE</b>	<b>ADVANCED</b>
Studio Art  Arts Exploratory (Available by teacher or counselor recommendation)	<b>FULL YEAR</b>  Drawing and Painting Studio in Art History Mixed Media Public Art 1  <b>HALF YEAR</b>  Digital Photography 1 + 2 Digital Art 1 + 2 Ceramics 1 + 2 Contemporary Crafts Visual Books	Public Art 2 Advanced Art 2-D Advanced Art 3-D Advanced Digital Art (coming in 2021-2022)  <b>COLLEGE LEVEL</b>  AP Art and Design: Drawing
<b><u>VISUAL ARTS SEQUENCE FOR ADVANCED REGENTS DIPLOMA</u></b>  <b>STUDIO ART + 4 ADDITIONAL ART CREDITS</b>  (Additional 4 credits may be Intermediate, Advanced, or College Level) The 5-credit visual arts sequence is one of the options available for students seeking Advanced Designation on their Regents Diploma.		
<b>PREREQUISITES</b>  A minimum grade of 75% in Studio Art is a prerequisite for all Intermediate Level courses.  To continue to Advanced Level or College Level courses, students must achieve a minimum grade of 85% in the corresponding prerequisite course.  In order to bypass a prerequisite, students must complete a prerequisite waiver, which can be obtained at the counseling office. An art teacher MUST sign off on the waiver before prerequisites can be bypassed.		

# BUSINESS

Department Head: Kevin Geiger

## Career & Financial Management

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 5030

Length: Half Year

Credit: .5

Examination: Local



The purpose of this one-half unit course is to provide students with the opportunity to learn about the features of our economy, explore a variety of careers, learn the skills and competencies needed for success in the workplace, and begin to become financially literate. Students will create a career portfolio; complete a virtual business computer simulation for personal finance, complete a checkbook simulation to maintain checkbook records manually, and then apply their skills learned on the computer utilizing the automated software program QuickBooks.

\*The course will be required as part of every career and technical education (CTE) program including five-unit CTE programs used as a substitution for the additional two units of foreign language needed for a Regents diploma with advanced designation.

\*\*This course is required for all students beginning with the Class of 2022. Honors Personal Money Management may be substituted.

## Honors Personal Money Management

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 5070

Length: Half Year

Credit: .5

Examination: Local



This college credit-bearing course offered through GCC (BUS 110) is designed to equip students with hands-on, lifelong skills including creating a financial plan for personal goals, avoiding credit trouble, saving money for everyday and major purchases (auto, homes, etc.), investing in stocks, bonds, and mutual funds. Students will also complete a virtual business computer simulation for personal finance and complete a checkbook simulation that entails maintaining checkbook records manually, and then apply their skills learned by maintaining their checkbook on the computer utilizing the automated software program QuickBooks. This course may be taken in place of CFM.

## Business Computer Applications

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 5010

Length: Half Year (Spring)

Credit: .5

Examination: Local



This course combines aspects of a small business with mastering Microsoft Office Word, Excel, PowerPoint, and Publisher. Students will explore topics such as management, human resources, ethics, and sustainability as well as participate in a marketing simulation integrating real-world projects for the operation of the business.

## Outdoor Business Management

Grade: 9-12

Prerequisite: N/A

Recommended: Any business course

CRN: 5060

Length: Half Year (Fall)

Credit: .5

Examination: Local

This course is designed to have each student become a member of a management team that specializes in outdoor business activities. The students will develop skills in leadership, teamwork, organizational skills, financial responsibility, and problem-solving. Team members will create a series of seasonal outdoor recreational sports businesses, in which they will plan, organize, market, finance, and field-test the products. This may include units such as making cider and learning the process of making maple syrup. Participation in organized functions in conjunction with Houghton College such as the ropes course, canoe trip, rock wall climbing, and/or other leadership activities is essential for success. Students will also complete a virtual business computer simulation for sports and entertainment.

## Business Law

Grade: 10-12

Prerequisite: N/A

Recommended: N/A

CRN: 5020

Length: Full Year

Credit: 1

Examination: Local

This course is designed to introduce students to the concepts that apply to both business and personal activities and transactions. A case-style approach is used to cover such topics as contracts, employer-employee relationships, rights of minors, insurance, and wills and estates. Additional topics include sales, agency and employment, bailments, credit, negotiable instruments, juvenile justice, consumer law, and family law. Students will also participate in mock-trials.

# BUSINESS

## Entrepreneurship I

Grade: 11-12

Prerequisite: N/A

Recommended: Career & Financial Management & DDP

CRN: 5050

Length: Full Year

Credit: 1

Examination: Local



This college-level course offered through GCC (BUS 101) is designed to provide students with the opportunity to gain real-world experience by creating, developing, and managing a real-life and virtual business venture. Major topics include the entrepreneurship perspective, characteristics of successful entrepreneurs, starting and developing new business, financing the new venture, managing the business, and special issues including globalism. The *real-life* business venture will entail creating, marketing, and selling products produced by equipment such as the laser engraver and 3D printer. The *virtual* business venture involves multiple area schools that each create virtual businesses in which the participating students learn the basics of establishing, managing, financing, etc. their business. These businesses interact with each other simulating a virtual economy.

## Entrepreneurship II

Grade: 12

Prerequisite: Entrepreneurship I

Recommended: N/A

CRN: 5051

Length: Full Year

Credit: 1

Examination: Local



This college credit-bearing course offered through GCC (BUS 101) is designed to provide students with the opportunity to gain real-world experience by creating, developing, and managing a real-life and virtual business venture. The *real-life* business venture will entail creating, marketing, and selling products produced by equipment such as the laser engraver, vinyl cutters, and 3D printers. Students will be expected to take leadership roles as department leaders, and possibly volunteer for student officer positions. Students will also be in charge of the production and manufacturing of many different jobs which involve the use of various pieces of equipment in the technology room. They may also find themselves taking lead roles in accounting, finance, business administration, sales & marketing, or web design.

\*GCC (BUS 101) credit is only available if not acquired in Entrepreneurship I.

## Accounting

Grade: 11-12

Prerequisite: N/A

Recommended: N/A

CRN: 5000

Length: Full Year

Credit: 1

Examination: Local

Accounting is the language of business. The purpose of this course is to introduce students to accounting concepts, principles, and practices. The focus will be on sole proprietorship, partnership, and corporate accounting utilizing both manual and automated accounting systems. Each type of business is presented in a complete accounting cycle, the recording process, financial statement preparation, and payroll and cash control. Upon successful completion of this course, students will be well prepared for an entry-level collegiate accounting course.

## Advanced Accounting

Grade: 12

Prerequisite: Accounting

Recommended: N/A

CRN: 5000A

Length: Full Year

Credit: 1

Examination: Local

The purpose of this course is to introduce students to accounting concepts, principles, and practices at an advanced level. Topics will include Departmentalized Accounting, Accounting Control Systems, and General Accounting Adjustments, Corporate Accounting, Management Accounting, Cost Accounting, and other accounting systems such as Not-For-Profit Accounting.

# ENGLISH LANGUAGE ARTS

Department Head: Jill Levee

## English 9

Grade: 9

Prerequisite: English 8

Recommended: N/A

CRN: 1200

Length: Full Year

Credit: 1

Examination: Local

In this course, students will develop analytical reading, academic writing, critical thinking, and presentation skills. Course content includes poetry, short story, drama, literary nonfiction, and informative texts. Analytical reading instruction will extend the understanding of language and literary techniques. Writing instruction will extend growth in the approaches of writing as outlined by narrative, expository, and argumentative tasks. Students will also develop skills in critical thinking, effective discussion and listening methods, and collaboration.

## English 9 (Honors)

Grade: 9

Prerequisite: English 8 & \*Application Process

Recommended:

CRN: 1200H

Length: Full Year

Credit: 1

Examination: Local

In addition to the curriculum of English 9, the English 9 honors course is enriched and accelerated. More units are addressed rigorously. Students may be required to read one novel and complete related tasks over the summer prior to beginning 9th grade. Independence with literature is fostered. Critical writing based upon literature and nonfiction is the primary focus of the course. Students are expected to actively engage in all classroom discussions and activities.

**\*Interested students may complete an application process in the spring of their 8th-grade year. Submitted applications will be evaluated on the following criteria: demonstrated proficiency in reading and writing, achievement and work completion in ELA 8, and teacher recommendation.**

## English 10

Grade: 10

Prerequisite: English 9

Recommended: N/A

CRN: 1300

Length: Full Year

Credit: 1

Examination: Local

Higher-level thinking skills are developed through the study of many forms of literature. Students deconstruct literature to analyze its elements, including the author's use of plot, setting, and characterization, as well as the treatment of various themes. Emphasis is placed on analyzing and writing about literature in all forms including drama, short stories, novels, poetry, and nonfiction. Students' appreciation of elements of literature throughout all genres is revealed via oral and written presentations. Writing skills are honed through peer review, guided formatting and structure, and the use of technology to enhance language and conventions.

## Pre-AP English 10 (Honors)

Grade: 10

Prerequisite: English 9 Honors

Recommended: N/A

CRN: 1300H

Length: Full Year

Credit: 1

Examination: NYS Regents Exam



Students are selected for this class by teacher recommendation based on English 9 performance, grades, and a written application piece. Summer reading and related tasks are required. More units of study are rigorously addressed throughout the year at an accelerated pace. Generally, text selections focus on World Literature with challenging, enriching texts, both fiction and nonfiction to support. Many titles are directly from the English AP Reading List. Strong independence with literature is expected. Writing projects emphasize comparing, contrasting, and interpreting reading materials. Success in this course may lead to AP courses at the 11th and 12th-grade levels. Students will take the Common Core English Regents Examination at the end of this course. This course will prepare students for the College and Career Readiness Standards, and begin the exploration of the AP curriculum.

## English 11

Grade: 11

Prerequisite:

Recommended: N/A

CRN: 1400

Length: Full Year

English 10 Credit: 1

Examination: NYS Regents Exam



Students read, write, and discuss all types of literature, focusing heavily on American literature. Learning tasks have a strong focus on analysis and the author's styles and devices. Emphasis is placed on interpretive writing and improving English skills through writing and study of writing, rather than on grammar or punctuation drill work. Additionally, this course includes strengthening writing for a Text Analysis Response and Argumentative Essay. This course prepares students for the Common Core English Regents Exam and College and Career Readiness Standards.

## AP English Language and Composition

Grade: 11

Prerequisite: English 10 Honors Pre-AP

Recommended: 85% or better Pre-AP English & on English Regents Exam

CRN: 1400AP

Length: Full Year

Credit: 1

Examination: AP Exam



The purpose of this course is to help students "write effectively and confidently in their college courses across the curriculum and in their professional and personal lives" (College Board, AP English Course Description, 2010, p. 7). The course is organized according to the requirements and guidelines of the current AP English Course Description, and, therefore, students are expected to read critically, think analytically, and communicate clearly in both writing and speech. Generally, text selections focus on American nonfiction with other challenging, enriching texts to support. **Summer reading and related tasks are required.** This course will prepare students for the AP English Language and Composition exam; students should plan to take this test.

# ENGLISH LANGUAGE ARTS

## English 12

Grade: 12

Prerequisite: English 11

Recommended: N/A

CRN: 1500

Length: Full Year

Credit: 1

Examination: Local

This course is designed to develop reading, writing, analytical, and communication skills through the study of the literature of several time periods and genres. One objective is to foster an appreciation for this literature with applications to life situations. Homework is assigned daily with grades based on tests, quizzes, writing assignments, and participation in class discussions. There will be a heavy focus on college and career readiness, public speaking, and extensive research. This course is designed to prepare students for college English entrance exams and placement tests.

## AP English Literature & Composition

Grade: 12

Prerequisite: AP English Language and Composition

Recommended: 85% or better Pre-AP English & on the English Regents Exam Examination: AP Exam

CRN: 1500H

Length: Full Year

Credit: 1



This is a college-level (ENG 105) literature and composition course where students engage in an intense study of representative works from widely recognized American and British literature. Through speaking, listening, and reading, but chiefly through their own writing, students will become more aware of the resources of language: connotation, metaphor, irony, syntax, and tone. Independent work is expected with a heavy emphasis on reading and writing. Class participation is essential.

## Issues in Science Fiction

Grade: 9-12

Prerequisite: English 8

Recommended: N/A

CRN: 1570

Length: Half Year

Credit: .5

Examination: N/A

This course will offer students an opportunity to evaluate the implications of technological and scientific advancement by looking at ethical questions raised through literature in the genre of science fiction. Non-fiction articles and research may accompany the reading and discussion of fictional literature to measure societal progress and consider possible futures. This course will uphold the Common Core English Language Arts standards.

## Creative Writing

Grade: 10-12

Prerequisite: English 9/English 9 (Honors)

Recommended: N/A

CRN: 1550

Length: Half Year

Credit: .5

Examination: Portfolio

Students in this English elective will be required to produce written work that meets specific guidelines and criteria on a weekly, and sometimes daily basis. The creative process, from inspiration through publication and dissemination, will be explored. Poetry will constitute roughly half of the course. The other half will be devoted to short prose work; either fiction or creative essays. Reading will be assigned in this course at the discretion of the teacher.

## Film Studies

Grade: 10-12

Prerequisite: English 9/English 9 (Honors)

Recommended: N/A

CRN: 1560

Length: Half Year

Credit: .5

Examination: Video Project/Essay

This English elective course will examine the art of storytelling through exploring film. Students will be exposed to a wide range of classic films, directors, and actors from the earliest days of filmmaking through the present. Students will be expected to participate in discussions and craft analytic essays based on their observations and examination of the content viewed.

# FAMILY AND CONSUMER SCIENCE

Department Head: Kevin Geiger

## Principles of Food Science

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 6015

Length: Half Year

Credit: .5

Examination: Local

In this course, students have an opportunity to prepare a variety of foods along with conducting experiments with food that help to clarify the way foods are used by the body. The challenge of providing innovative, safe, and nutritional food products to a growing global population is explored. Food trends are examined to see how our societies adapt to changes in the food industry. This course is designed for students who are interested in learning more about foods and the ways they affect our bodies and our world.

# LANGUAGES OTHER THAN ENGLISH (LOTE)

Department Head: Kari Evans

## French I/Spanish I

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: FR- 8020, SP- 8120

Length: Full Year

Credit: 1

Examination: Local

Regents-level I in French or Spanish is required of all students pursuing a Regents diploma who have not earned Checkpoint A credit in 8th-grade. This class focuses on basic verb structures and theme vocabulary to assist students in the skills of listening, reading, speaking, and writing in the target language. Topics such as food, clothing, sports, weather, housing, and holidays are presented in conjunction with grammar topics. French/Spanish speaking countries are studied briefly with an emphasis on geography and culture throughout.

## French II/Spanish II

Grade: 9-12

Prerequisite: French I/Spanish I/8th grade LOTE

Recommended: N/A

CRN: FR- 8030, SP- 8130

Length: Full Year

Credit: 1

Examination: Local

This course expands the work in Level I in the four areas of listening, reading, speaking, and writing. Verb tenses are studied in greater detail, especially the past tense. Reading practice becomes more focused on the target language and more culturally relevant materials such as music and movies are introduced. Students are encouraged to work in small peer groups to develop their conversational skills.

## French III/Spanish III

Grade: 10-12

Prerequisite: French II/Spanish II

Recommended: N/A

CRN: FR- 8040, SP- 8140

Length: Full Year

Credit: 1

Examination: Checkpoint B



This course culminates with the Checkpoint "B" exam to assess students' progress in the four areas of listening, reading, speaking, and writing. Students continue to improve their vocabulary knowledge. Great emphasis is placed on verb tense, comprehension, and enjoyment of the target language. Conversation in small groups is encouraged and guided. Upon completion of Level III, the student is ready to speak and understand a full class period in French/Spanish.

## French IV Honors/Spanish IV Honors

Grade: 11-12

Prerequisite: French III/Spanish III

Recommended: N/A

CRN: FR- 8042, SP- 8142

Length: Full Year

Credit: 1

Examination: Local



This is an advanced French/Spanish course that focuses on literature, writing, and grammar. The teacher and students speak primarily in the target language; English is seldom used. Text written by French/Spanish authors is read in class. Music and movies are an integral part of the course. The final assessment is a communication-based portfolio demonstrating proficiency in the target language. All students preparing for college are encouraged to complete this course.

## AP French/Spanish Language and Culture

Grade: 11-12

Prerequisite: French IV/Spanish IV

Recommended: N/A

CRN: FR- 8060A, SP- 8160A

Length: Full Year

Credit: 1

Examination: AP Exam



This course culminates with the Language and Culture AP exam. It takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language control, communication strategies, and cultural awareness. Students will learn language structures in context and use them to convey meaning. In order to best facilitate the study of language and culture, the course is taught in the target language. The course engages students in an exploration of culture in both contemporary and historical contexts in order to develop students' awareness and appreciation of the products, practices, and perspectives of the target culture.

## Cooking Around the World

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 6020

Length: Half Year

Credit: .5

Examination: Local

Students in this course will gain an understanding of how meals are prepared and eaten around the world. They will also spend time researching local food production in different regions of the world, geography, and climate and its impacts on food systems, and how food is grown, processed, and shipped. The culminating project for this semester's course will be a multimedia portfolio about food in a student's chosen country.

## World Issues & Global Citizenship

Grade Level: 10-12

Prerequisite: Global 9

Recommended: N/A

CRN: 8090

Length of Course: Full year

Credits: 1

Examination: Local

In this course, students work to become global citizens; this includes developing an understanding of different parts of the global community in social, political, economic, and environmental contexts and investigation of global interdependence in these areas. Students develop an understanding of the critical literacy of media sources and interview guest speakers from different backgrounds on how they make a difference in their own communities. Students are prepared for college and career by honing digital citizenship, research and writing skills, and public speaking and debate skills.

# MATHEMATICS

Department Head: Marc Sylor

## Pre-Algebra

Grade: 9  
Prerequisite: Math 8  
Recommended: N/A

CRN: 2199  
Length: Full Year  
Credit: 1  
Examination: Local

This is a 9th-grade course that will give students entering high school the fundamental skills required to be successful in an algebra course. This course will review and solidify the skills learned in 7th and 8th-grade math classes. The final exam will be a local final given in June. **\*Not NCAA approved for core credit.**

## Extended Algebra 1A

Grade: 9-10  
Prerequisite: Math 8  
Recommended: N/A

CRN: 2210  
Length: Full Year  
Credit: 1  
Examination: Local

This course is Year 1 of a two-year algebra sequence. This will begin to prepare students for their Common Core math Regents exam by introducing the graphing calculator and its many applications. The focus of this course will involve solving and graphing linear equations, algebraic concepts, and reviewing probability and statistics. This course will emphasize problem-solving strategies. The final exam will be a local exam given in June. **\*Approved by NCAA for .5 course credit.**

## Extended Algebra 1B

Grade: 10-12  
Prerequisite: Extended Algebra 1A  
Recommended: N/A

CRN: 2220  
Length: Full Year  
Credit: 1  
Examination: CC Algebra I



This course is Year 2 of a two-year algebra sequence. This will continue to prepare students for their math Regents exam by continuing to use the graphing calculator and its many applications. The focus of this course will involve solving and graphing quadratic equations, solving and graphing exponential, and exploring other non-linear relationships. The final exam will be the Algebra 1 Common Core exam. Students will take the exam in January, and if needed or desired, again in June. **\*Approved by NCAA for .5 course credit.**

## Algebra 1

Grade: 9-10  
Prerequisite: Math 8  
Recommended: 80% average or better in Math 8

CRN: 2200  
Length: Full Year  
Credit: 1  
Examination: CC Regents Algebra I



This course will prepare students for the first Regents Examination in mathematics by introducing the graphing calculator and its many applications. The focus of this course will involve solving and graphing linear equations, algebraic concepts, solving quadratics, exponential functions, probability, and statistics, all through the lens of functions. This course will emphasize problem-solving strategies and the final exam will be the Common Core Algebra Regents exam given in June.

## Geometry

Grade: 10-12  
Prerequisite: Algebra I & Algebra I Regents Exam  
Recommended: 85% average or better in Algebra

CRN: 2400  
Length: Full Year  
Credit: 1  
Examination: CC Regents Geometry



This course will prepare students for the second Regents examination in mathematics. Topics include geometric shapes, measures of geometric figures, transformations, triangle relationships, and angle measures. In addition, geometric and logic proofs will be studied. The final exam will be the Geometry Common Core Regents exam given in June.

## Algebra II

Grade: 10-12  
Prerequisite: Geometry & Geometry Regents Exam  
Recommended: 85% or better in Algebra & Geometry

CRN: 2510  
Length: Full Year  
Credit: 1  
Examination: CC Regents Algebra II



This course is designed to build upon previous skills and concepts presented in Algebra and Geometry. Topics include linear relationships, matrices, linear systems, quadratics, exponential functions, and periodic functions. Additionally, probability, statistics, sequences, and series will be discussed during the year. This course is recommended for students who have achieved at least an 85% course average in Algebra & Geometry. This course concludes with the Algebra 2 Common Core Regents Exam.

## Applied Algebra 2/Trigonometry

Grade: 10-12  
Prerequisite: Algebra I Regents Exam Credit  
Recommended: N/A

CRN: 2550  
Length: Full Year  
Credit: 1  
Examination: Local



This course is designed to build upon previous skills and concepts presented in Algebra. Topics include linear relationships, matrices, linear systems, quadratics, exponential functions, and rational expressions. Additionally, statistics and various trigonometric topics will be studied. This course will conclude with a local exam in June. **\*NCAA approved for .5 course credit.**

## Algebra III

Grade: 11-12  
Prerequisite: Applied Algebra 2/Trigonometry (or Higher)  
Recommended: N/A

CRN: 2600  
Length: Full Year  
Credit: 1  
Examination: Local

This course is for students who wish to further their math background but do not wish to take Pre-Calculus. Topics include linear equations and functions, matrices and vectors, the theory of equations, sequences and series, conic sections, probability, and descriptive statistics. **\*NCAA approved for .5 course credit.**



# MATHEMATICS

## Honors Pre-Calculus

Grade: 11-12

Prerequisite: Algebra II & Regents Exam Credit

Recommended: N/A

Students in this course will further their analysis of math by studying various behaviors of functions, conic sections, and progressions, as well as trigonometry. Differential calculus and limits will be introduced. Graphical analysis, sequences, and series, and exponential and logarithmic functions will be studied. Real-world applications and applications of the graphing calculator will be emphasized.

CRN: 2800

Length: Full Year

Credit: 1

Examination: Local



## AP Calculus AB

Grade: 12

Prerequisite: Pre-Calculus

Recommended: N/A

This course offers students an analytical approach to the study of functions, motion, and rates of change as well as distance, areas, and volumes. It is divided into two primary studies: Differential Calculus and Integral Calculus. The graphing calculator will be emphasized throughout to visualize, evaluate, and apply mathematics.

CRN: 2850H

Length: Full Year

Credit: 1

Examination: AP Exam



## Consumer Math

Grade: 11-12

Prerequisite:

Recommended: N/A

This course will complete a third or fourth year of a student's math requirement. The focus of this course will be to study a variety of math topics related to everyday applications. Topics include compound interest, simple interest, annuities, taxes, and mortgages. Exploration, technology, and projects will provide the student with a wide variety of math experiences. \*Not NCAA approved for core credit.

CRN: 2300

Length: Full Year

Credit: 1

Examination: Local

## Statistics

Grade: 10-12

Prerequisite: Algebra I

Recommended: Applied Algebra II or Algebra II

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to descriptive data with graphical and numerical techniques, binomial and normal distribution; probability distributions, estimation and sampling, hypothesis testing, and linear regression models. Emphasis is on practical applications, including the use of Google Sheets software.

CRN: 2825

Length: Full Year

Credit: 1

Examination: Local



## AP Statistics

Grade: 11-12

Prerequisite: Algebra II & Regents Exam Credit

Recommended: N/A

This course will be taught at the college level in preparation for the AP Statistics exam. The purpose of this course is to explore the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to several broad conceptual themes: Exploring Data, Planning a Study, Anticipating Patterns, Probability Models, and Statistical Inference.

CRN: 2825H

Length: Full Year

Credit: 1

Examination: AP Exam



## Computer Science Principles (CSP)

Grade: 10-12

Prerequisite: Algebra

Recommended: Applied Algebra 2/ Algebra 2-Trig

Computer Science Principles (CSP) curriculum is a course designed around the AP Computer Science Principles Framework. Although not yet offered as an official AP course, CSP is designed to be an entry-level course in computers, the internet, and programming for high school students. Throughout the year we will work on building coding skills with the end goal of the course being the production of a mobile app. We will each submit an app to the app store for the general public to access, download, and use. The course is broken down into 2 semesters and five core units of study:

### Semester 1

1.) Digital representation of information, images, and music

2.) How the internet works

3.) Internet security and encryption

4.) Programming with the code.org app lab (JavaScript)

### Semester 2

5.) Programming with MIT app inventor for android devices (blocks)

The course is also based on Computational Thinking Practices (CTP), which captures important aspects of the work that computer scientists engage in. They represent higher-order thinking skills, behaviors, and habits of mind that need to be constantly visited, repeatedly honed, and refined over time. \*This course can be taken as an elective for math or science credit.

CRN: 2250

Length: Full Year

Credit: 1

Examination: Final Project

## AP Computer Science Principles (CSP)

Grade: 11-12

Prerequisite: Algebra II & Regents Exam (65% or Higher)

Recommended: Applications of programming and/or CSP (non-AP)

This course will be taught at the college level in preparation for the AP Computer Science Principles exam. AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts and contribute to a computing culture that is collaborative and ethical.

CRN: 2250H

Length: Full Year

Credit: 1

Examination: AP Exam



# MUSIC

Department Head: Cristyn Reynolds

## 9-12 Mixed Chorus

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 7531  
Length: Full Year  
Credit: 1  
Examination: Local

Mixed Chorus is composed of 9-12 grade students. There is no audition to become a part of this performing ensemble; however, a vocal pre-assessment will be required in order for placement. Repertoire for this ensemble is graded as Level 5 and Level 6, according to the NYSSMA manual. Rehearsals will encompass intense vocal work focusing on vowel production, posture, phonation, flexibility, sight-reading, and multicultural/bilingual pieces. **Group Instrumental Lessons:** A comprehensive study based on the specific voice type. Musical selections will include various solos, as per the NYSSMA manual, vocal technique and exercises, choral music, and duets. These are a requirement of the class.

## Chamber Singers

Grade: 9-12  
Prerequisite: \*Audition Required, Must be in 9-12 Chorus/Teacher Approved  
Recommended: N/A

CRN: 7535  
Length: Full Year  
Credit: .5  
Examination: N/A

The Chamber Singers is a select group of 9-12 Grade Singers. This is an auditioned ensemble. The music performed is Acapella, Vocal Jazz, and higher-level choral music. Students in this ensemble participate in All-County, Area All-State, Solo Festival, and ACDA Eastern/National Conferences. Multiple performance opportunities outside of school are expected of all members. If you are interested, please see Mrs. Buckel for audition requirements.

## 9-12 Concert Band

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 7521  
Length: Full Year  
Credit: 1  
Examination: Local

The Dansville High School Concert Band is composed of 9-12 grade students. Auditions are required for seating assignments at the beginning of the year. Repertoire performed by this ensemble is between level 4 through level 6, according to the NYSSMA manual. Marching Band is also a component of the Concert Band, performing at various Parades, Football halftime shows, and various festivals in New York State. **Group Instrumental Lessons:** A comprehensive study based on the specific instrument the student studies. Musical selections will include various solos, as per the NYSSMA manual, tone building exercises, Concert Band music, and duets.

## 9-12 Drumline

Grade: 9-12  
Prerequisite: 4 Years of Band as Percussionist or Teacher Approved  
Recommended: N/A

CRN: 7566  
Length: Full Year  
Credit: 1  
Examination: Local

The 9-12 Drum Line course is for the experienced drummer who is looking to improve and perform as a percussionist. (If the band student does not currently study percussion, please see Mrs. Mark for approval.) This course is for band students that would prefer to concentrate only on the drumline, African drumming, and small drum ensembles. The Drum Line course will be an intensive study of rudiments, upper-level playing, and will challenge the inner love for percussion students. Members of Drumline will not participate in the concert band or the marching band settings, but will participate in percussion concerts, possible performances at local sporting events, and may have opportunities to audition for All-County Band, the High School Pit Orchestra, and Area All-State.

## Introduction to Music Theatre

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 7545  
Length: Full Year  
Credit: 1  
Examination: Local

This college credit-bearing course offered through GCC (THE 105) is an introduction to the world of musical theatre. Students will be introduced to the musical theatre form, the personnel involved in the making of a musical, and a brief history of the musical. Students will learn audition techniques, prepare songs from each of the stylistic periods studied, and perform this repertoire at established times throughout the year. Other topics of study include choreography, staging, director roles, and monologue work. **\*This course will next be offered during the 2021-22 school year and will be offered in alternating years.**

## Music Theory

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 7550  
Length: Full Year  
Credit: 1  
Examination: Local

Music Theory educates students on how to read, analyze, notate, and sight-read musical excerpts. In this class, reading skills are strengthened and also will help students in group and individual performances. This class is used as a tool to help both instrumentalists and vocalists alike.

**\*This course will next be offered during the 2022-23 school year and will be offered in alternating years.**

## History of Rock & Roll

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 7540  
Length: Full Year  
Credit: 1  
Examination: Local

Students will learn about the blues, jazz, and other music idioms that have influenced, developed, and helped transform rock and roll into what it is today. Students will learn about the inner workings of basic music, compose their own music based on the different styles learned, and do extensive listening to music to learn how to critique it so they have an understanding of how musicians construct a piece of music. Students are expected to know basic vocabulary and events that link world history and music together so they become more aware that everyday life is the biggest influence on music and develop an understanding of how music and history intertwine. When students leave this course they will have a basic understanding of music, the artists that shaped music, and how events in history helped shape music, and how it continues to shape music today. This class is project-oriented to give students an active experience in creating and learning about music.

# PHYSICAL EDUCATION & HEALTH

Department Head: Sean Race

\*Additional Physical Education courses may be taken as elective credit with department approval on an individual basis.

\*\*All Physical Education courses include a mandatory aquatics unit.

## Physical Education

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 6610

Length: Full Year

Credit: .5

Examination: Local

All students are required to participate in physical education every year that they attend school. Students are involved in activities that cover physical, mental, and social skills. They may select from a variety of games, sports, fitness, and aquatic units offered.

## Lifetime Fitness

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 6630

Length: Full Year

Credit: .5

Examination: Local

Physical education is an integral component of our educational program. Through sport and movement, students will participate in a program that fosters each student's personal health, safety, and fitness. Through a wide variety of activities, students will gain the necessary knowledge to understand the importance of and be able to make educated decisions around opportunities to achieve and maintain a healthy lifestyle. Physical education provides an opportunity to contribute to the overall development and wellbeing of every individual. Respect, cooperation, communication, teamwork, and sportsmanship will be emphasized throughout the course.

## Adapted Physical Education

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 6620

Length: Full Year

Credit: .5

Examination: Local

Students recommended by CSE participate in an alternate type of physical activity. Other students that are included in this type of class are those with short-term medical problems preventing them from participating in regular physical education classes.

## The Edge

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 6640

Length: Full Year

Credit: .5

Examination: Local

This physical education course helps promote physical fitness, movement and sports skills, and lifelong fitness activity. The objectives of this course are to provide character, education, promote lifelong fitness habits, and enhance fitness and movement skills. Students will be given pretests and posttests to assess fitness levels.

## Health

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

CRN: 6520

Length: Half Year

Credit: .5

Examination: Local

Students will learn about their overall wellness relating to their physical, mental, emotional, and social health. Students will gain knowledge and have a better understanding of the following topics: drug prevention, stress management, healthy relationships, human sexuality, and disease prevention.


# SCIENCE

Department Head: Kevin Mialky

## Living Environment

Grade: 9  
Prerequisite: N/A  
Recommended: N/A


This course is the study of life, maintenance in living things (systematic approach), human physiology, genetics, reproduction, development, origin, and evolution of life, and ecology. Critical thinking and analytical skills will be emphasized. Completion of all state lab requirements is necessary before taking the final exam.

CRN: 3200, LAB- 3200L   
Length: Full Year  
Credit: 1  
Examination: NYS Regents Exam

## Earth Science

Grade: 10  
Prerequisite: N/A  
Recommended: N/A

This course investigates the Earth and the processes that shape it. The topics studied will include surface and internal forces, rocks and minerals, atmosphere, climate and weather, oceans, space and Earth's place in it, natural resources, and Earth's history. Completion of all state lab requirements in the lab setting is necessary before taking the final exam.

CRN: 3400, LAB- 3400L   
Length: Full Year  
Credit: 1  
Examination: NYS Regents Exam

## General Earth Science

Grade: 10-12  
Prerequisite: Living Environment and Regents Exam Credit  
Recommended: N/A

This class will focus on activities and projects pertaining to major concepts in Earth Science. Topics covered in this class include Measurement and Density, Rocks & Minerals, Weathering and Erosion, Plate Tectonics, Earthquakes, Volcanoes, Weather, Astronomy, and Global Climate issues. This course is designed for students seeking general background in Earth Science and does not include a separate lab section and students will not take the Earth Science Regents exam at the end of the year.


CRN: 3450  
Length: Full Year  
Credit: 1  
Examination: Local

## AP Biology

Grade: 11-12  
Prerequisite: Living Environment and Regents Exam Credit  
Recommended: Chemistry and Regents Exam Credit

AP Biology is a rigorous and demanding course, which is the equivalent of an introductory college biology course. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Content will be covered in more depth and greater expectations will be placed on interpretation and analysis of information than previous biology courses. A significant amount of studying must be completed at home to allow time for discussion, labs, and inquiry during class time.



**\*This course will next be offered during the 2022-23 school year and will be offered in alternating years.**

CRN: 3715H, LAB- 3715HL   
Length: Full Year  
Credit: 1  
Examination: AP Exam

## Chemistry

Grade: 11  
Prerequisite: Living Environment & Earth Science Regents Exams  
Recommended: N/A

This course is the study of atomic structure, chemical reactions, and the way in which chemical reactions are controlled. The emphasis is on the understanding of concepts, relationships, mechanisms, models, and applications within a framework of process skills. Major topics include atomic concepts, the periodic table, mathematical relationships, chemical bonding, the physical behavior of matter, kinetics and equilibrium, redox reactions, organic chemistry, and nuclear chemistry. A complete lab program is required to gain entrance into the Regents exam. It is recommended that students have a successful relationship with Algebra prior to taking Chemistry. GCC Chem 101 credit is available through the ACE Program.


CRN: 3500, LAB- 3500L    
Length: Full Year  
Credit: 1  
Examination: NYS Regents Exam

## General Chemistry

Grade: 11-12  
Prerequisite: 2 Science Credits and 1 Science Regents Exam Credit  
Recommended: N/A

This course covers the same content as Regents Chemistry with the exception of an additional unit on Biochemistry to replace the exam review at the end of the year. This may also be of interest to students who are going into the medical field. There is no separate lab section/requirement nor are students required to take the Regents Exam at the end of the year. This also follows the GCC Chem 100 curriculum and students can earn college credit through the ACE Program.

**\*This course will next be offered during the 2022-23 school year and will be offered in alternating years.**



CRN: 3510   
Length: Full Year  
Credit: 1  
Examination: Local

## AP Chemistry

Grade: 11-12  
Prerequisite: Regents Chemistry and Regents Exam Credit  
Recommended: 85% or better Regents Chemistry Exam 90+ or 90% or better in Regents Chemistry Class

This course builds on the content of Regents Chemistry and explores some topics while also introducing new, more sophisticated concepts. Students will assume greater responsibility for initiating their own lab inquiries and in applying more detailed theoretical analysis to their work. This means longer, more complicated experiments and difficult problem sets. GCC Chem 102 credit is available through the ACE Program.

**\*This course will next be offered during the 2021-22 school year and will be offered in alternating years.**

CRN: 3500H, LAB- 3500HL    
Length: Full Year  
Credit: 1  
Examination: AP Exam

# SCIENCE

## Physics

Grade: 11-12

Prerequisite: Regents Earth Science or Chemistry & Regents Exam Credit

Recommended: Geometry & Regents Chemistry

This course investigates four main areas with nearly half of the year spent on mechanics, which includes forces, gravity, linear motion, two-dimensional motion, and energy. The other half of the year is spent studying waves, electricity, and nuclear energy. The objectives of the course are to explain and develop the concepts and mathematical models that lead to an understanding of mechanical occurrences in the real world. This course includes a lab requirement that is a prerequisite to sit for the Regents exam. Students can earn 4 college credits through GCC.

CRN: 3600, LAB- 3600L

Length: Full Year

Credit: 1

Examination: NYS Regents Exam



## General Physics

Grade: 11-12

Prerequisite: 2 Science Credits and 1 Regents Exam Credit

Recommended: Algebra I & Algebra Regents Exam

This course covers the same areas as physics but with a focus on the physics of sports, music, energy, and astronomy. Numerous opportunities for hands-on activities are provided. The final assessment will be designed by the teacher and given in place of the Regents exam. Students can earn 4 college credits through GCC.

CRN: 3610

Length: Full Year

Credit: 1

Examination: Local



## AP Physics 1

Grade: 11-12

Prerequisite: Regents Chemistry or Physics and Regents Exam Credit

Recommended: Geometry and Regents Chemistry

Want to be an engineer or major in science? This course covers the topics of Regents Physics and explores some additional topics and more sophisticated concepts. Students will assume greater responsibility for initiating their own lab inquiries and in applying more detailed theoretical analysis to their work. Strong abilities in mathematics are vital. Students can earn 4 college credits through GCC unless college credit was already earned for Regents Physics

CRN: 3600, LAB- 3600HL

Length: Full Year

Exam Credit: 1

Examination: NYS Regents & AP Exams



## Applications of Programming I & II

Grade: 10-12

Prerequisite: 1 Science Credits and 1 Regents Exam Credit

Recommended:

This physical science elective will focus on using programming to accomplish desired goals. Goals may include manipulating electronic circuits, making computer games, creating engineered projects, and programming robots. Technologies used in this class may include Microsoft Micro: Bits, Arduinos, Raspberry Pis, 3D printers, and VEX Robotics kits. An inquiring, creative, and innovative mindset is encouraged in this student-centered and project-based course. *This course meets the following components: science, technology, engineering, programming, presentation, community outreach, career and college readiness. Applications of Programming I IS NOT a prerequisite of Applications of Programming II.*

**\*This course can be taken as an elective for math or science credit.**

CRN: I- 3730, II- 3731

Length: Fall/Spring

Credit: .5/.5

Examination: Local

## Introduction to Agriculture I & II

Grade: 10-12

Prerequisite: 1 Science Credits and 1 Regents Exam Credit

Recommended:

This life science elective will focus on the fundamentals of Agriculture. It will include both physical science and biology topics. The course is meant to provide a hands-on and in-depth study of a variety of topics pertaining to agriculture, especially in New York. The student will use grow systems to apply different topics to live plants they will be growing. Students will learn the basics of growing plants, the importance of plants to humans, properties of soils, plant-soil interactions, plant deficiencies, plant health, fertilizers, water, land use, GMOs, orchard maintenance, maple syrup production, and the importance of honey bees. It will incorporate several standards in NYS standards including, Science, Math, Technology, ELA, Career, and Occupational studies, and the Arts. The curriculum will be supplemented with material from NY Agriculture in the Classroom, which is partnered with Cornell University, NYS Dept of Agriculture and Markets, Cornell Cooperative Extension, and NY Farm Bureau. Introduction to Agriculture I IS NOT a prerequisite to Introduction to Agriculture II.

CRN: I- 3740, II- 3741

Length: Fall/Spring

Credit: .5/.5

Examination: Local

## Science Issues & Topics Around the Globe I & II

Grade: 10-12

Prerequisite: 1 Science Credits and 1 Regents Exam Credit

Recommended:

This science elective will focus on evaluating current issues related to science and determining their significance and impact on society in the 21st century. The course will encourage students to explore a variety of science topics, current events, and debatable issues that are reported around the world. Some of these topics may include the human population, global climate change, air and water pollution, waste management, environmental health, species decline, energy resources, disease and medicine, genetic advancements, space exploration, and sustainability. Students will: use technological tools to access a variety of resources, evaluate information and data presented by various resources, analyze and propose solutions to current issues, develop skills for different media presentations, practice communication/debate skills, and demonstrate global and multicultural competence, acceptance, and understanding. Appropriate citizen science projects or community service projects will also be a major focus to supplement and enhance student participation. Selected students may also participate in various field trips, such as the Finger Lakes, Buffalo, or Adirondack Youth Climate Summits. Science Issues & Topics Around the Globe I IS NOT a prerequisite to Science Issues & Topics Around the Globe II.

CRN: I- 3750, II- 3751

Length: Fall/Spring

Credit: .5/.5

Examination: Local

# SOCIAL STUDIES

Department Head: Kristin Luxon

## Global History and Geography 9

Grade: 9

Prerequisite: Social Studies 8

Recommended: N/A

This course begins the two-year study of the world involving the study of geography, history, government, economics, and world cultures and is taught chronologically, covering the prehistoric world to 1750. Students will also develop competency in using maps, charts, cartoons, and other media in the study of history. The course will include elements of research and application of materials using technology, with students producing researched based products.

CRN: 4200

Length: Full Year

Credit: 1

Examination: Local

## Pre-AP World History 9

Grade: 9

Prerequisite: Social Studies 8 & \*Identification Process

Recommended:

This course is the first year of a two-year study of the World. It involves the study of geography, history, government, economics, and world cultures and is taught using a chronological approach, covering the prehistoric world through the 15<sup>th</sup> century. As an honors-level course, students will be expected to complete a variety of written assignments and reading preparing them for the challenge of college-level history courses. Additional reading and research assignments will be used to bring about a rich understanding of history.

\*Students are identified for Global 9 Honors based on the following criteria: achievement and work completion in Social Studies 8, demonstrated proficiency in reading, attendance, and teacher recommendation.

CRN: 4200H

Length: Full Year

Credit: 1

Examination: Local



## Global History and Geography 10

Grade: 10

Prerequisite: Global 9

Recommended: N/A

This course is the second year of a chronological study of the world from 1750 to the present that follows the guidelines of the ninth grade program. A Regents exam, which is required for all high school students, is administered at the end of this course.

CRN: 4300

Length: Full Year

Credit: 1

Examination: NYS Regents Exam



## AP Modern World History

Grade: 10

Prerequisite: Global 9

Recommended: Global 9 Honors

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

CRN: 4301H

Length: Full Year

Credit: 1

Examination: NYS Regents & AP Exams



## US History & Government 11

Grade: 11

Prerequisite: Global 10

Recommended: N/A

This course aims to teach students the basic principles and cultural heritage upon which our nation was founded. Special attention is given to thirteen enduring constitutional issues: national power, Federalism, the judiciary, civil liberties, the rights of the accused, equality, the rights of women, rights of racial and ethnic groups, presidential power, separation of powers, avenues of representation, property rights, economic policy, and Constitutional change and flexibility. Course emphasis is placed on the development of the United States since it began to emerge as an industrial nation, primarily from the end of the Civil War to the present day. A Regents exam is administered at the end of this course.

CRN: 4400

Length: Full Year

Credit: 1

Examination: NYS Regents Exam



## AP US History & Government

Grade: 11

Prerequisite: Global 10

Recommended: AP Global

This course provides the students with the opportunity to earn college credit (HIS 201, HIS 202). The course covers topics from early European exploration through the end of the Cold War. Particular emphasis is placed upon the diplomatic, economic, cultural, political, and social history of the US. Additional emphasis focuses on the development of communicative skills, namely on oral argumentation through the use of seminars and written expression. These skills are essential, not only to academic success but in the professional environment. The Regents exam is administered at the end of this course.

CRN: 4400H

Length: Full Year

Credit: 1

Examination: NYS Regents & AP Exams



## Government

Grade: 12

Prerequisite: US History & Government

Recommended: N/A

This course examines the theory and practice of the political process, Civil Rights, public issues, and citizen involvement. Using the 11<sup>th</sup> grade US History & Government as a springboard, we research current political problems and how to solve them. Attention is paid to the NYS government as well as local governments. It utilizes a multi-faceted approach in getting students to realize their role as citizens in a democracy. Special effort will be made in getting students to accept the responsibility for active involvement in the political process. A mandated project is also part of this course.

CRN: 4500

Length: Half Year

Credit: .5

Examination: Local

# SOCIAL STUDIES

## AP U.S. Government

Grade: 12

Prerequisite: US History & Government

Recommended: AP US History

This course is a study of the constitutional foundations of America and the evolution of American government and political parties in America and their functions and activities. Through the use of primary documents, engaging readings, and active involvement in local government, students will explore and evaluate the past and current political culture of American society. A mandated government project is also part of this course and students have the opportunity to take the AP U.S. Government and Politics Exam in May.

CRN: 4551AP  
Length: Half Year  
Credit: .5  
Examination: AP Exam



## Economics

Grade: 12

Prerequisite: US History & Government

Recommended:

Economics is a course that examines basic economic concepts, the components of the American economic system, and the relationships between the world's economies, comparative economic systems, and the student's role in the economic system as a consumer, worker, investor, and voting citizen. This course will examine a rational decision-making process, which can be applied to all economic decisions.

CRN: 4550  
Length: Half Year  
Credit: .5  
Examination: Local

## AP Macroeconomics

Grade: 12

Prerequisite: US History & Government

Recommended: AP US History

The aim of AP Economics is to provide students with a learning experience that is equivalent to that obtained in a typical college-level introduction to economics course. AP Macroeconomics is designed to provide students with a thorough understanding of the principles of economics that apply to the economic system as a whole. Students learn to think like economists: to question, to evaluate marginal costs and marginal benefits, and to explore the many ways in which one action causes secondary actions. Students will have the opportunity to take the AP Macroeconomics exam in May.

CRN: 4550AP  
Length: Half Year  
Credit: .5  
Examination: AP Exam



## Intro to Psychology

Grade: 10-12

Prerequisite: 1 credit in Social Studies

Recommended: Completion of Global History

This course will introduce the student to the scientific study of human behavior. It will provide a broad overview of fundamental psychological concepts, focusing on the development, cognitive processes, personality adjustment, breakdown, and socialization of the human species.

CRN: 4600  
Length: Half Year  
Credit: .5  
Examination: Local

## Intro to Sociology

Grade: 10-12

Prerequisite: 1 credit in Social Studies

Recommended: Completion of Global History

This course will allow students to discover the meaning behind human behavior and society's impact on the individual. Students will practice using the skills of the sociologist by interpreting primary sources and begin to develop a sociological imagination. Activities will include writing assignments, research projects, and real-life applications, as students are encouraged to see the connection between themselves and society. They will broaden their world perspectives from a social, cross-cultural, or historical point of view.

CRN: 4700  
Length: Half Year  
Credit: .5  
Examination: Local

## War & Conflict in American History

Grade: 10-12

Prerequisite: 1 credit in Social Studies

Recommended: Completion of Global History

America's involvement in war throughout history has had a major impact on both world events and politics. Our culture is both shaped and reflected by war and conflict. Students in this class will explore America's involvement in warfare through a variety of media including books, novels, videos, and guest speakers. The major topics of this course will be strategies and decisions made by generals, as well as the experience of the soldiers, the home front, propaganda, weapons, and societal effects. Major conflicts that will be explored will include the American Civil War, World War II, and Vietnam. This course will be taught in a seminar-style format, emphasizing class discussions based on readings and other experiences related to war at the teacher's discretion.

CRN: 4850  
Length: Half Year  
Credit: .5  
Examination: Local

## The Holocaust and Humanity

Grade: 11-12

Prerequisite: Global 10

Recommended: N/A

This course will allow students to gain insight into the many historical, social, political, and economic factors that cumulatively resulted in one of the watershed events of not only the 20th century but all of human history. Students will gain an understanding of the ramifications of prejudice, racism, and stereotyping that led to genocide. In addition to historical content, the class will make the essential connection between history and the moral choices that we confront in our modern lives. The course of study will include the use and analysis of primary source materials, film, art, literature, and research projects of individual interest.

CRN: 4800  
Length: Half Year  
Credit: .5  
Examination: Local

# TECHNOLOGY

Department Head: Kevin Geiger

## Design & Drawing for Production (DDP)

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 5630  
Length: Full Year  
Credit: 1  
Examination: Local

Students in this course design, sketch, and draw products while learning technical drafting skills, problem-solving, and artistic design. This course is recommended for any student who is interested in engineering, architecture, design, or technical careers and is a prerequisite for many of the other technology courses at DHS. This course may be taken by any student to meet the fine arts requirement.

## Communication Systems I

Grade: 9-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 5620  
Length: Half Year  
Credit: .5  
Examination: Local

This course is an introduction to the fields of audio, audiovisual, and graphic communication. Emphasis will be on activities, primarily the design and production of the 9-12 Danua Yearbook, and areas surrounding graphic design, digital photography, copy, and page layout. Digital publishing, editing, and journalism will be utilized as a source of communication with the end product resulting in the printing and manufacturing of the yearbook.

## Communication Systems II

Grade: 10-12  
Prerequisite: Graphic Communications I  
Recommended: Digital Photography & Accounting

CRN: 5621  
Length: Half Year  
Credit: .5  
Examination: Local

This course is a continuation and advanced application to the fields of audio, audiovisual, and graphic communication. Emphasis will be on activities, primarily the design and production of the 9-12 Danua Yearbook, and areas surrounding graphic design, digital photography, copy, and page layout. Digital publishing, editing, and journalism will be utilized as a source of communication with the end product resulting in the printing and manufacturing of the yearbook.

## Graphic Communications I

Grade: 9-12  
Prerequisite: Communication Systems I  
Recommended: Studio Art & DDP

CRN: 5640  
Length: Half Year  
Credit: .5  
Examination: Local

This course will expand upon the basic concepts covered in Communication Systems. The coursework will include advanced activities in computer graphics, desktop publishing, digital photography, page layout, copy, video editing, and web design. The Danua Yearbook and senior video will be the end products of this course and Communication Systems.

## Graphic Communications II

Grade: 10-12  
Prerequisite: Communication Systems II  
Recommended: Digital Photography & Accounting

CRN: 5641  
Length: Half Year  
Credit: .5  
Examination: Local

This course will expand on the advanced concepts that were covered in the course Communication Systems 1 and 2. The coursework will include advanced activities in computer graphics, desktop publishing, digital photography, page layout, copy, video editing, and web design. The Danua Yearbook and senior video will be the end products of the combination of both ½ year courses, Communication Systems, and Graphic Communications.

## Interior Design

Grade: 10-12  
Prerequisite: DDP or Studio in Art  
Recommended: N/A

CRN: 5700  
Length: Half Year  
Credit: .5  
Examination: Local

This class is designed to help the student learn to make wise housing choices, the application of art principles and their parallel to global decorating choices, study floor plans, room and furniture arrangement, and selection, study housing styles, as well as, consumer rights and responsibilities. Using project-based learning strategies 10th -12th-grade students will apply the principles of floor plan design, room and space planning, furniture arrangement and selection, as well as ADA compliance. Students will solve real-world design problems by exercising a multitude of tools to produce drawings, compose sample boards of materials and color choices, select and arrange furnishings, and accompany all projects with a cost and analysis of selections.

## CAD I

Grade: 10-12  
Prerequisite: DDP  
Recommended: N/A

CRN: 5601  
Length: Half Year  
Credit: .5  
Examination: Local



The primary emphasis of CAD will be on the use of computer systems for drawing and design, problem-solving, and acquiring advanced drafting skills. Students may register to receive GCC credit for Engineering 118.

## CAD II Architecture

Grade: 10-12  
Prerequisite: CAD I  
Recommended: N/A

CRN: 5602  
Length: Half Year  
Credit: .5  
Examination: Local



This course provides the opportunity to learn more about the history and principles of architecture and related drafting practices. The student will learn the basic premises of house design and how architectural drawings and models are produced. The major part of this course will be the design and drawing of a structure. Students may register to receive GCC credit for Engineering 103.



# TECHNOLOGY

## CAD III – 3D

Grade: 10-12  
Prerequisite: CAD I  
Recommended: N/A

CRN: 5603  
Length: Half Year  
Credit: .5  
Examination: Local

CAD III is a hands-on course that uses Autodesk Inventor to promote Science, Technology, Engineering, and Math (STEM) education programs while integrating 3D printing technology. Using hands-on and project-based learning strategies, students will effectively excel in the areas of STEM and learn to integrate industry applications into their learning experiences. Our core curriculum takes students through the entire design process (design, prototyping, and manufacturing). Students will exercise a variety of drafting and design software tools to execute both 2D and 3D drawings and illustrations. Students will produce drawings of their own design as well as assigned exercises. CAD III coursework will provide students with opportunities to solve real-world design problems, engage with industry-standard technology, and transform concepts into reality by using a 3D printer.

## Material Processing I

Grade: 10-12  
Prerequisite: N/A  
Recommended: N/A

CRN: 5650  
Length: Half Year  
Credit: .5  
Examination: Local

This is a hands-on class that will introduce students to woodworking, tools, and equipment used to process and handle wood. Safety is first and foremost and much of the first marking period is devoted to teaching safe tool and equipment operation. Students will be taught what quality and craftsmanship look like so that they can develop a sense of pride, accomplishment, and respect for all people and tools. Evaluation is based on safe lab procedures, work habits, performance, and project completion.

## Material Processing II

Grade: 10-12  
Prerequisite: Material Processing I  
Recommended: N/A

CRN: 5660  
Length: Half Year  
Credit: .5  
Examination: Local

This is a hands-on class that focuses on the handling of wood through applying woodworking techniques and the use of tools and equipment. Students will continue to grow in learning about what quality and craftsmanship look like so that they can develop a sense of pride, accomplishment, and respect for all people and tools. Safety is first and foremost all of the time, and most of the class time will be spent on student projects of choice. Computer technology such as a laser engraver will be introduced to enhance student projects. Evaluation is based on safe lab procedures, work habits, performance, and project completion.

## Advanced Material Processing I

Grade: 10-12  
Prerequisite: Material Processing I  
Recommended: N/A

CRN: 5651  
Length: Half Year  
Credit: .5  
Examination: Local

This is a hands-on class that focuses on designing and building furniture. Students will continue to learn and apply woodworking techniques while gaining more experience in the use of tools and woodworking equipment. Students will be able to show and demonstrate what quality and craftsmanship look like while having a good sense of pride, accomplishment, and respect for all people and tools. Students will research period furniture and styles, and then incorporate one characteristic from their period furniture research into their 1st project. Students may use computer technology to accent and enhance their projects. Safety is first and foremost all of the time. Most of the class time will be spent on student projects of choice. Evaluation is based on safe lab procedures, work habits, performance, and project completion.

**\*This course will ONLY be offered during the 2021-22 school year and then will be replaced by a new course in 2022-23.**

## Advanced Material Processing II

Grade: 10-12  
Prerequisite: Material Processing I  
Recommended: N/A

CRN: 5661  
Length: Half Year  
Credit: .5  
Examination: Local

This is a hands-on class that focuses on introducing computer integrated design and manufacturing principles along with the use of woodworking tools and equipment. Students will develop problem-solving skills and apply their knowledge of new equipment to design and create solutions to various challenges. Students will continue to learn and gain more experience in the use of tools and equipment while building projects. Safety is first and foremost all of the time. Most of the class time will be spent on student projects of choice. Evaluation is based on safe lab procedures, work habits, performance, and project completion.

**\*This course will ONLY be offered during the 2021-22 school year and then will be replaced by a new course in 2022-23.**

## MST I

Grade: 11-12  
Prerequisite: DDP  
Recommended: N/A

CRN: 5670  
Length: Full Year  
Credit: 1  
Examination: Local

MST is a hands-on course that promotes Science, Technology, Engineering, and Math (STEM) education programs while integrating a hands-on project-based curriculum into the 11th -12th-grade classroom. Our core curriculum utilizes several electricity modules, CAD software, a 3D printer, a laser engraver, and a CNC router. Master projects approximately five weeks in length will take students through the entire design process (design, prototyping, and testing). Master projects may include but are not limited to trebuchets, CO2 powered dragsters, bridges, airplanes, and cardboard boats. Our MST coursework will provide students with opportunities to solve real-world design problems, engage with industry-standard technology, and transform concepts into reality.

# VOCATIONAL EDUCATION

(BOCES) – All courses are for a full year

## Animal Science

The Animal Science program is for students who have a desire to work with large or small animals. The program teaches both basic and advanced skills in such areas as health and disease, nutrition, reproduction, anatomy, physiology, parasitology, handling, restraint, and management. Specialized skills in such areas as grooming, marketing, and leadership are also emphasized. Animal handling, management, and care are practiced with a variety of species. Course work is geared to the interests and career direction of the individual student. Employment possibilities for veterinary technicians and other animal care workers over the next ten years are projected to be excellent.

## Auto Trades: Collision, Custom, and Restoration

Students learn through the hands-on repair of damaged vehicles and special projects the complete process of auto body repair from paint and preparation to clean up. Instruction is provided in metal straightening, use of epoxies and filler, masking, and application of modern finishes. Students develop skills in the use of gas, and MIG welding and also learn the latest airbrushing techniques. Analyzing vehicle damage, selecting proper tools and methods to correct the damage, and estimating the cost of repairs are important aspects of this course.

## Auto Trades: Automotive Technology

Students in the general Auto Tech course acquire the skills necessary to diagnose, maintain, and repair all systems of automobiles and light trucks while working with modern diagnostic equipment. With the new environmental emission laws, employment prospects are expected to remain excellent in this field.

Both the Mt. Morris and Batavia programs are part of the Ford Future Techs program. Rochester and Buffalo-area automotive dealers have supplied these programs with current vehicles and accompanying diagnostic technologies that are utilized in the classroom.

## Building Trades (Carpentry, Cabinet Making, Electrical/ Plumbing/Heating)

This program provides students with a background applicable to both residential and commercial construction. Students learn technical skills in specialized areas of carpentry and cabinet making, residential wiring, plumbing, and heating. Training occurs in machine operations, test equipment, hand tools, portable and stationary power tools, pneumatic tools, rigging, and OSHA Safety requirements.

Students build a house on-site every year. This provides hands-on experience in residential framing, door and window hanging, electrical wiring, heating systems, plumbing, siding, roofing, drywall installation, and interior/exterior trim. Blueprint reading, material codes, and specifications are extensively taught. Cooperative work experiences and other work experience opportunities are also available. In addition, students will have the opportunity to produce group and individual woodworking projects or to work in more advanced areas of the electrical or plumbing and heating trades.

## Computer Information Systems

This program provides hands-on experience with the newest technology. Students work on a PC network and use the Internet as a research tool to design web pages and communicate with the industry. Students gain hands-on experience in Systems Operations and Computer Programming as they work with current business applications. Students gain practical knowledge as they install software and hardware and use multimedia technology on their own network system. Internships with school district technology coordinators and local businesses in web hosting and computer system design are available.

This program is only offered at the Mount Morris Career and Technical Education Center.

## Conservation and Heavy Equipment

Students learn how to safely operate and maintain outdoor equipment such as backhoes, bulldozers, dump trucks, chain saws, wood chippers, forestry tools, and tools of measurement. Learning activities include tree identification and maintenance, wood lot management, social excavation and grading, pond and drainage projects, and many other skills needed for environmental and outdoor careers. Students will develop skills in landscaping, landscape design, horticulture, hardscaping, and the design and construction of outdoor structures such as decks and sheds. Students apply excavation landscaping skills at the site of a house under construction by students in Building Trades. Emphasis is on safety and responsibility. Career opportunities include highway departments, excavating and construction, building and grounds maintenance, logging and sawmill operation, trucking, and landscaping-related fields.

## Cosmetology

Students learn the latest techniques in hair, nail, and skincare in our modern, fully equipped classroom salon. Advanced students apply their skills in our salon environment. Students who complete 1,000 hours and pass the course will be eligible to take the New York State Licensing exam. A cosmetology license allows you to practice all aspects of hair, skin, and nail care.

# VOCATIONAL EDUCATION

## **Criminal Justice**

Students explore opportunities in the field of criminal justice while learning about our legal system. Course work includes an in-depth look at police work, the courts, and the field of corrections. Students also learn about federal, state, and local laws and their effects on the community.

Guest lecturers from various phases of the criminal justice field, mock trials, and field trips give students a first-hand view of our criminal justice system at work. Career opportunities include police work, probation, corrections, courts, and security. A simulated crime scene investigation culminates the school year.

## **Culinary Arts**

Students prepare food in a large commercial kitchen and manage a cafe and dining room. Instruction includes a Serve Safe safety and sanitation course, equipment and utensil usage, food production, customer relations, menu development, and supervisory skills. Students learn how to prepare and present a wide variety of foods from appetizers to desserts including international foods. Students provide a dining room and banquet service throughout the year to faculty, staff, principals, counselors, migrant workers, and other students.

Semi-skilled areas of employment upon graduation include cook, prep-cook, dietetic aide, and baking assistant. Employment opportunities with a two-year degree include chef, pastry chef, and dining room manager, catering manager, purchasing agent, personal chef, and food service supervisor. Opportunities with a four-year degree include executive chef, dietitian, restaurant manager, and executive pastry chef.

## **Diesel Mechanics**

Diesel-powered vehicles are found in construction roles, trains, marine applications and are commonly used in the military. In addition, fixed diesel engines are widely used as a power source for generators, pumps, and other applications requiring a dependable and economical source of power. The Diesel Mechanics Program is a two-year training sequence aimed at students who have a desire to work on trucks, heavy machinery, and corporate fleets.

This program is offered at both the Mount Morris and Batavia Career and Technical Education Centers.

## **Health Dimensions**

Health Dimensions students engage in a challenging hands-on approach in the health field. Participants will experience and provide the "human side" of client care at local health care facilities.

All Health Dimensions students spend time in local facilities working collaboratively with staff members, residents, and patients. Students may choose to shadow medical professionals from many disciplines. Health Dimensions students may explore the following: Anatomy & Physiology, Gerontology, Phlebotomy, and Electrocardiogram Technology. Responding to Emergencies is a first aid response course taught in the Health Dimensions program.

Students, who meet the requirements, may receive certification in First Aid, Adult CPR, Child, and Infant CPR, AED, and Child Abuse Reporting. Fees, paid by the participant, may be required.

Students may choose to take the New York State Nurse Assisting certification exam after completing the current requirements listed under the New York State Education Department and New York State Department of Health for secondary education students enrolled in a Nurse Assisting program. Students prepare for this exam by meeting the minimum number of required hours and minimum proficiency as required by the Health Dimensions instructor. Students are required to pay a fee to take the certification exam.

## **Human Services**

This program prepares students for a wide range of career opportunities in the diverse field of human services. Through practical work experiences, students develop high-level skills needed to interact with people of all ages in a variety of environments such as classrooms, childcare centers, and human service agencies. Over the course of two years, students study human growth and development, from birth to adulthood.

Human Services students gain experience planning and preparing lessons for preschool children, including writing goals and learning objectives. Students research specific issues facing individuals and families, as well as locating and creating a list of Community Resource Agencies that serve the respective population. Human Services students examine aging and how it impacts a person's development, including lifestyle changes, activities, and various levels of care. Students in Human Services experience working with the aging population in local assisted-living facilities. Human Services students also have the opportunity to work with clients from either Genesee ARC or the ARC of Livingston-Wyoming.

Students learn valuable job skills, such as writing cover letters and resumes, creating a portfolio, and interview experience. Eligible students have the opportunity to have two work-based learning experiences in the community, at various local agencies and/or schools.

Students have the opportunity to become certified in First Aid and Community CPR.

This program is only offered at the Mount Morris campus.

# VOCATIONAL EDUCATION

## Metal Trades

Precision Machining and Welding are two courses that make up the Metal Trades Program. Students will be exposed to both areas, gaining skills necessary to be successful in today's industry. Second-year students will choose an area of concentration - either Welding or Precision Machining.

**Precision Machining:** Students prepare for entry-level positions such as apprentice machinists, tool and diemakers, mold makers, model makers, or machine builders. People employed in one of these occupations often make custom or one-of-a-kind items. Students learn how to set up and operate equipment commonly used in modern machine shops. Hands-on instruction is provided in the use of lathes, milling machines, surface and cylindrical grinders, drill presses, computer numerically controlled (CNC) lathes and milling machines, and the electrical discharge machine (EDM). Units of study include safety, computer-aided drafting, and design (CAD), welding, precision measurements, precision layout, and heat-treating.

**Welding:** Students gain knowledge and skills in a variety of metal joining and cutting processes. Skills are developed in Shielded Metal Arc (SMAW), Gas Tungsten Arc (TIG), Gas Metal Arc (MIG) welding, Plasma Arc (PAC), and Oxy-Fuel (OFC) cutting. Out of position, structural, pipe welding, and print reading are also covered. Skills are developed through hands-on projects and work for customers. Students may receive entry-level welder certification from the American Welding Society upon successful completion of the written exam and welder performance samples.

During this course, students earn their 10-hour OSHA certification and OSHA forklift license. Students who are eligible may apply for their "Class B" license.



## College Tech Prep Health Careers Academy

The College Tech Prep Health Careers Academy is a course of study designed to provide qualified students with a broad knowledge of the healthcare industry. Students explore multidisciplinary health care professions and current biotechnology through on-site observations at local hospitals and other health care facilities. Students applying to the academy should have plans to attend college or technical school in a healthcare field, be enrolled or have successfully completed chemistry, and possess at least a B average at their home school. This program offers Genesee Community College credit and serves as a foundation for pursuing careers as an audiologist, biomedical engineer, dentist, dietician, hematologist, lab pathologist, massage therapist, nuclear imaging technician, nurse, optometrist, physical or occupational therapist, physician, pharmacist, radiologist and more.



## Sports Science Careers Academy

A new Sports Science Academy, available to high school students, was launched in September 2018. The program is held at the Genesee Community College (GCC) Dansville campus. Course curriculum includes sports management, health sciences related to coaching, weight and athletic training, body conditioning as well as Red Cross Certification in first aid and CPR.

This is a joint venture with Genesee Community College (GCC) through the ACE Program. The ACE Program is a partnership between Genesee Community College and Western New York high schools to provide college courses to secondary students during the school day.

Students are eligible to earn 14 college credit hours through GCC at a third of the regular GCC tuition.

This is a half-day program. Students will attend their home school district for core academics and will then come to the Sports Science Academy at the GCC Campus for the remainder of their school day. Transportation will be provided by the students' home districts.

Students who are interested in taking the course must sign up this year with their high school guidance counselors.

## Pathways to Technology Early College High School (PTECH)

The WNY Tech Academy is a Pathways in Technology Early College High School (P-TECH), supporting students grades 9-14. We serve 13 regional school districts through a curriculum that places a strong emphasis on hands-on, project-based learning to prepare students for high-skill, financially stable careers in growth industries. Students attending the WNY Tech Academy will complete all necessary coursework for a New York State Regents Diploma as well as earn an Associate of Applied Science degree through Genesee Community College at no cost

**\*Some courses within the PTECH program are given Honors Designation (BUS101, ACC101, FPT101, and FPT102.) For additional information, please see your counselor and/or visit the WNY Tech Academy website at [www.wnytechacademy.org](http://www.wnytechacademy.org).**