

# Dansville

## High School



## 2018-2019

Course  
Description  
Book

# TABLE OF CONTENTS

	<b>Page</b>
Table of Contents	1
Steps in the Course Selection Process	2
Graduation Requirements & Course Designations	3
Diploma/Credential Options & Designations	4
Dual Credit Course Options	5
English Language Arts	6
Languages Other Than English	8
Social Studies	10
Math	13
Science	16
Business	18
Technology	20
Family and Consumer Science (FACS)	22
Music	23
Art	24
Physical Education & Health	27
Vocational Education	28

# 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 upon 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 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is ever a time when a course is dropped after this drop/add period, the student's transcript will show the course as withdrawn.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 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 showing 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:

- 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.

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 Procedures

1. In order to drop/add a course after school begins, students must meet with their counselor to discuss 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 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 & COURSE DESIGNATIONS

## 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:

REGENTS DIPLOMA		
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>

REGENTS DIPLOMA with ADVANCED DESIGNATION		
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.

## Course Designations



### 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 available to Dansville High School students. These courses provided a rigorous learning environment that will prepare students to take the AP examination. Exams are offered in May and students are encouraged to take the exam. The 2016-2017 fee for each exam, as determined by the Educational Testing Service, is approximately \$90.00. The examinations are graded on a five-point scale: 5 = extremely well qualified, 4 = well qualified, 3 = qualified, 2 = possibly qualified, or 1 = no recommendation. In July the scores are sent to the students, their designated college(s), and their high schools. High achievement in these courses and on the exam may result in college credit, placement in upper level college courses, or both. **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. Specific information in regards to registering for college courses, as well as tuition and fees, is set by GCC and will be provided to the students by the GCC Advanced Studies representative each semester.



### Regents Credit Course:

Students must pass a Regents Exam in these courses with a score of 65% to earn a Regents Course Credit.

# 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.

<b>Honors</b>	Meets all assessment requirements for the 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).  <a href="http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors">http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors</a>
<b>Mastery in Math</b>	Meets all assessment requirements for the Regents Diploma with Advanced Designation and, in addition, scores 85 or better on each of 3 Regents examinations in Mathematics.  <a href="http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD">http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD</a>
<b>Mastery in Science</b>	Meets all assessment requirements for the Regents Diploma with Advanced Designation and, in addition, scores 85 or better on each of 3 Regents examinations in Science.  <a href="http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD">http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD</a>
<b>Career &amp; Technical Endorsement</b>	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.  <a href="http://www.p12.nysed.gov/part100/pages/1005.html#carteched">http://www.p12.nysed.gov/part100/pages/1005.html#carteched</a>

### 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.”

<b>Valedictorian</b>	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.
<b>Salutatorian</b>	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.
<b>Gold Robe Honors Senior</b>	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).

## Dual Credit Classes

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 High School has partnered with Genesee Community College. Specific information in regards to registering for college courses, as well as tuition and fees, is set by GCC. This information will be provided to the students by the Counseling Center and/or the GCC Advanced Studies Representative.

\* The College Board sponsors the Advanced Placement program which offers students who have enrolled in AP Classes the opportunity to sit for the corresponding AP Exam administered in May. Information in regards to fees and registering for the AP Exams is provided by Dansville High School.

<u>Dansville Course Name</u>	<u>AP Exam</u>	<u>GCC Course Name</u>	<u>GCC Credits</u>	<u>Semester</u>
AP English Language and Composition	X	GCC ENG 101	3	Full Year
AP English Literature & Composition	X	GCC ENG 105	3	Full Year
French 201		GCC FRE 201	3	Full Year
Spanish 201		GCC SPA 201	3	Full Year
AP World History & Geography 10	X	GCC HIS 101 & 102	3 each semester	Full Year
AP United States History	X	GCC HIS 203 & 204	3 each semester	Full Year
AP Government	X	GCC POS 101	3	Fall
AP Macroeconomics	X			Spring
Applied Algebra 2/Trig		GCC MAT 102	3	Full Year
Statistics		GCC MAT 129	3	Full Year
AP Statistics	X	GCC MAT 129	3	Full Year
Algebra III		GCC MAT 136	3	Full Year
Honors Pre-Calculus		GCC MAT 140	4	Full Year
AP Calculus AB	X	GCC MAT 141	4	Full Year
AP Biology	X			Full Year
General Chemistry		GCC CHE 100	4	Full Year
Chemistry		GCC CHE 101	4	Full Year
AP Chemistry	X	GCC CHE 102	4	Full Year
Physics		GCC PHY 121	4	Full Year
AP Physics	X	GCC PHY 121	4	Full Year
Honors Personal Money Management		GCC BUS 110	3	Fall
Entrepreneurship		GCC BUS 101	3	Full Year
CAD I		GCC ERG 118	3	Fall
CAD II/Architecture		GCC EGR 103	3	Spring
AP Studio Art	X			Full Year

# ENGLISH LANGUAGE ARTS

Department Head: Jill Levee

## English 9

Grade: 9

Prerequisite: English 8

Recommended: N/A

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 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

Recommended: English 8 Honors

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 a primary focus of the course. Students are expected to actively engage in all classroom discussions and activities.

## English 10

Grade: 10

Prerequisite: English 9

Recommended: N/A

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 author's use of plot, setting and characterization, as well as 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 use of technology to enhance language and conventions.

## English 10 Honors Pre-AP



Grade: 10

Prerequisite: English 9

Recommended: English 9 Honors

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. A 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 exploration of the AP curriculum.

## English 11



Grade: 11

Prerequisite:

Recommended: N/A

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 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.

# ENGLISH LANGUAGE ARTS

## AP English Language and Composition



**Grade: 11**

**Prerequisite: Pre-AP English & NYS English Regents Exam**

**Recommended:**

**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 may be required. This course will prepare students for the AP English Language and Composition exam; students should plan to take this test. \*\*\*Students wishing to receive GCC credit will need to take this course PRIOR to AP English Literature and Composition.

## English 12

**Grade: 12**

**Prerequisite: English 11**

**Recommended: N/A**

**Length: Full Year**

**Credit: 1**

**Examination: Local**

This course is designed to develop reading, writing, analytical, and communication skills through the study of 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: Pre-AP English & NYS English Regents Exam**

**Recommended: AP English Language and Composition**

**Length: Full Year**

**Credit: 1**

**Examination: AP Exam**

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.

\*\*\**Ideal criteria for placement in English 12 AP includes successful completion of AP English and Composition, 85% or higher on the ELA exam, and teacher recommendation.*

## Issues in Science Fiction

**Grade: 9-12**

**Prerequisite: English 8**

**Recommended: N/A**

**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 Common Core English Language Arts standards.

## Creative Writing

**Grade: 11-12**

**Prerequisite: English 9 & 10**

**Recommended: N/A**

**Length: Half Year**

**Credit: .5**

**Examination: Portfolio**

Students in this course 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 as 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: 11-12**

**Prerequisite: English 9 & 10**

**Recommended: N/A**

**Length: Half Year**

**Credit: .5**

**Examination: Video Projects**

This course will examine the art of storytelling through exploring film. Students will be exposed to a wide range of class films, directors, and actors from the earliest days of filmmaking through the present.



# LANGUAGES OTHER THAN ENGLISH (LOTE)

Department Head: Kari Evans

## French I/Spanish I

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

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 passed the Checkpoint A exam 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

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 in 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. In-depth study of important French or Spanish cities, artists and leaders brings a new dimension to the cultures being explored.

## French III/Spanish III



Grade: 10-12  
Prerequisite: French II/Spanish II  
Recommended: N/A

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.

## Honors French 201/Spanish 201



Grade: 11-12  
Prerequisite: French III/Spanish III  
Recommended: N/A

Length: Full Year  
Credit: 1  
Examination: Local

This is an advanced course in literature, writing, and grammar that may be taken for college credit with tuition payment. It parallels a French IV/Spanish IV class. Teacher and students speak in the target language; English is seldom used. Books written by French or Spanish authors are read in class. Music and movies are an integral part of the course. The final assessment is a written assignment that analyzes the concepts introduced through the literary pieces studied during the year. All students preparing for college should be encouraged to complete this course.

## AP French/Spanish Language and Culture



Grade: 11-12  
Prerequisite: French 201/Spanish 201  
Recommended: N/A

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.

## ACC U Spanish IV H



(Accelerate U- Online Course)

Grade Level: 11-12  
Prerequisite: Spanish III  
Recommended: N/A

Length of Course: Full year  
Credits: 1  
Type of Examination: Online

Spanish IV will certainly expand your students' language skills. However, it will also take them on a fascinating cultural journey. They will experience the language's rich traditions and superstitions. Through exploring the past, students will come to understand the importance of community, family, and personal relationships. They will be immersed in culture—movement, art, music, literature. Meeting real people and hearing their stories will allow students to gain new vocabulary, have better command of the language, and understand their role as a global citizen. (Course offered in 2018-2019 School Year)

# LANGUAGES OTHER THAN ENGLISH (LOTE)

## Teaching LOTE to Elementary Students

Grade Level: 11-12

Prerequisite: French III/Spanish III

Recommended: N/A

Length of Course: Full year

Credits: 1

Type of Examination: Local

This course will help students strengthen their bilingual abilities in a practical way by preparing them to teach French or Spanish lessons to students in the primary or elementary schools. Class time will be divided each week between learning about lesson planning and teaching, preparing and practicing lessons, and going into primary and elementary classes to teach the lessons. This class is recommended for students who enjoy foreign language and are interested in pursuing a profession in teaching or other human service related fields.

## World Issues & Global Citizenship

Grade Level: 10-12

Prerequisite: Global 9

Recommended: N/A

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 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.

## Cooking Around the World

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

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 of this semester course will be a multimedia portfolio about food in a student's chosen country.

# SOCIAL STUDIES

Department Head: Kristin Luxon

## Global History and Geography 9

Grade: 9

Prerequisite: Social Studies 8

Recommended: N/A

Length: Full Year

Credit: 1

Examination: Local

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.

## Honors Pre-AP World History

Grade: 9

Prerequisite: Social Studies 8,

Recommended: Social Studies 8 Honors

Length: Full Year

Credit: 1

Examination: Local

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.

## Global History and Geography 10

Grade: 10

Prerequisite: Global 9

Recommended: N/A



Length: Full Year

Credit: 1

Examination: NYS Regents Exam

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.

## AP World History

Grade: 10

Prerequisite: Global 9 Honors

Recommended: N/A



Length: Full Year

Credit: 1

Examination: NYS Regents & AP Exams

This section of 10<sup>th</sup> grade history covers both the Regents Global History/Geography curriculum, as well as the Advanced Placement World History curriculum and provides the students with the opportunity to earn college credit (HIS 101, HIS 102.) The purpose of the AP portion of this course is to develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. Focused primarily on the past thousand years of global experience, the course builds on an understanding of the essential and comparative themes of world history. Entrance into this section is through application and performance criteria in 9<sup>th</sup> grade.

## US History & Government 11

Grade: 11

Prerequisite: Global 10

Recommended: N/A



Length: Full Year

Credit: 1

Examination: NYS Regents Exam

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, rights of the accused, equality, rights of women, rights of racial and ethnic groups, presidential power, separation of powers, avenues of representation, property rights and 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.

## AP US History & Government

Grade: 11

Prerequisite: Global 10

Recommended: AP Global



Length: Full Year

Credit: 1

Examination: NYS Regents & AP Exams

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 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.

# SOCIAL STUDIES

## Government

**Grade:** 12

**Prerequisite:** US History & Government

**Recommended:** N/A

**Length:** Half Year

**Credit:** .5

**Examination:** Local

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 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.

## AP U.S. Government



**Grade:** 12

**Prerequisite:** US History & Government

**Recommended:** AP US History

**Length:** Half Year

**Credit:** .5

**Examination:** AP Exam

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.

## Economics

**Grade:** 12

**Prerequisite:** US History & Government

**Recommended:**

**Length:** Half Year

**Credit:** .5

**Examination:** Local

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 consumer, worker, investor, and voting citizen. This course will examine a rational decision-making process, which can be applied to all economic decisions.

## AP Macroeconomics



**Grade:** 12

**Prerequisite:** US History & Government

**Recommended:** AP US History

**Length:** Half Year

**Credit:** .5

**Examination:** AP Exam

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.

## Intro to Psychology

**Grade:** 10+

**Prerequisite:** 1 credit in Social Studies

**Recommended:** Completion of Global History

**Length:** Half Year

**Credit:** .5

**Examination:** Local

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.

## Intro to Sociology

**Grade:** 10+

**Prerequisite:** 1 credit in Social Studies

**Recommended:** Completion of Global History

**Length:** Half Year

**Credit:** .5

**Examination:** Local

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.

# SOCIAL STUDIES

## The Holocaust and Humanity

**Grade: 11+**

**Prerequisite: Global 10**

**Recommended: N/A**

**Length: Half Year**

**Credit: .5**

**Examination: Local**

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.

## War & Conflict in American History

**Grade: 10+**

**Prerequisite: 1 credit in Social Studies**

**Recommended: Completion of Global History**

**Length: Half Year**

**Credit: .5**

**Examination: Local**

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, video, and guest speakers. 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 discussion based on readings and other experiences related to war at teacher's discretion.

# MATHEMATICS

Department Head: Fred Young

## Pre-Algebra

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

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  
Prerequisite: Math 8  
Recommended: N/A

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  
Prerequisite: Extended Algebra 1A  
Recommended: N/A

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  
Prerequisite: Math 8  
Recommended: N/A

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  
Prerequisite: Algebra I & Algebra I Regents Exam  
Recommended: N/A

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: 11  
Prerequisite: Geometry & Geometry Regents Exam  
Recommended: 85% or better in Algebra & Geometry

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 in June.

# MATHEMATICS

## Applied Algebra 2/Trigonometry



**Grade:** 11

**Prerequisite:** Algebra I Regents Exam Credit

**Recommended:** N/A

**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. GCC Math 102 credit is available through the ACE Program.

\*NCAA approved for .5 course credit.

## Algebra III



**Grade:** 11

**Prerequisite:** Applied Algebra 2/Trigonometry (or Higher)

**Recommended:** N/A

**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, theory of equations, sequences and series, conic sections, probability and descriptive statistics. GCC Math 136 credit is available through the ACE Program.

\*NCAA approved for .5 course credit

## Computer Science Principles (CSP)

**Grade:** 10-12

**Prerequisite:** Algebra

**Recommended:** Applied Algebra 2/ Algebra 2-Trig

**Length:** Full Year

**Credit:** 1

**Examination:** Final Project

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 a full year course that is rigorous, but still an entry-level course for high school students. The course contains five core units of study:

- 1.) Digital representation of information
- 2.) How the internet works
- 3.) Internet security and encryption
- 4.) Programming with the code.org app lab (JavaScript)
- 5.) Programming with MIT app inventor for android devices (blocks)
- 6.) Programming with python

The course is also based on the Computational Thinking Practices (CTP), which capture 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.

## Consumer Math

**Grade:** 11-12

**Prerequisite:**

**Recommended:** N/A

**Length:** Full Year

**Credit:** 1

**Examination:** Local

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.

## Statistics



**Grade:** 11-12

**Prerequisite:** Algebra I

**Recommended:** Applied Algebra II or Algebra II

**Length:** Full Year

**Credit:** 1

**Examination:** Local

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 description; probability distributions, estimation and sampling, hypothesis testing, and linear regression models. Emphasis is on practical applications, including the use of Google Sheets software. This course is available for GCC credit. GCC Math 129 credit is available through the ACE Program.

# MATHEMATICS

## AP Statistics



**Grade: 11-12**

**Prerequisite: Algebra II & Regents Exam Credit**

**Recommended: N/A**

**Length: Full Year**

**Credit: 1**

**Examination: AP Exam**

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. GCC Math 129 credit is available through the ACE Program.

## Honors Pre-Calculus



**Grade: 11+**

**Prerequisite: Algebra II & Regents Exam Credit**

**Recommended: N/A**

**Length: Full Year**

**Credit: 1**

**Examination: Local**

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. GCC Math 140 credit is available through the ACE Program.

## AP Calculus AB



**Grade: 12**

**Prerequisite: Pre-Calculus**

**Recommended: N/A**

**Length: Full Year**

**Credit: 1**

**Examination: AP Exam**

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. GCC Math 141 credit is available through the ACE Program.



# SCIENCE

Department Head: Nichelle Allen

## Living Environment



Grade: 9

Prerequisite: N/A

Recommended: N/A

Length: Full Year

Credit: 1

Examination: NYS Regents Exam

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.

## Earth Science



Grade: 10

Prerequisite: N/A

Recommended: N/A

Length: Full Year

Credit: 1

Examination: NYS Regents Exam

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.

## General Earth Science

Grade: 10-12

Prerequisite: Living Environment and Regents Exam Credit

Recommended:

Length: Full Year

Credit: 1

Examination: Local

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 a general background in Earth Science. General Earth Science does not include a separate lab section and students will not take the Earth Science Regents exam at the end of the year.

## AP Biology



Grade: 11-12

Prerequisite: Completion of Regents Living Environment

Recommended: Chemistry

Length: Full Year

Credit: 1

Examination: AP Exam

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 2018-19 school year and will be offered in alternating years.**

## Chemistry



Grade: 11

Prerequisite: Living Environment & Earth Science Regents Exams

Recommended: N/A

Length: Full Year

Credit: 1

Examination: NYS Regents Exam

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.

## General Chemistry



Grade: 11-12

Prerequisite: 2 Science Credits and Regents Exam Credit

Recommended: N/A

Length: Full Year

Credit: 1

Examination: Local

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 medical fields. 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.

# SCIENCE

## AP Chemistry



**Grade: 11-12**

**Prerequisite: Regents Chemistry**

**Recommended: 85% or better on Regents Chemistry Exam**

**Length: Full Year**

**Credit: 1**

**Examination: AP Exam**

Need more chemistry? 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 2019-20 school year and will be offered in alternating years.**

## Physics



**Grade: 11-12**

**Prerequisite: 2 Science Credits and Regents Exam Credit**

**Recommended: Algebra I & Algebra Regents Exam**

**Length: Full Year**

**Credit: 1**

**Examination: NYS Regents Exam**

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. Can earn 4 college credits through GCC.

## General Physics

**Grade: 11-12**

**Prerequisite: 2 Science Credits and Regents Exam Credit**

**Recommended: Algebra I & Algebra Regents Exam**

**Length: Full Year**

**Credit: 1**

**Examination: Local**

This course covers the same areas as physics but with 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.

## AP Physics 1



**Grade: 11-12**

**Prerequisite: Regents Chemistry or Physics 85% or better**

**Recommended: Algebra II, Regents Physics**

**Length: Full Year**

**Credit: 1**

**Examination: NYS Regents & AP Exams**

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. Can earn 4 college credits through GCC. unless college credit was already earned for Regents Physics

# BUSINESS

Department Head: Kevin Geiger

## Career & Financial Management

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

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 to 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 can be used as a substitute.

## Honors Personal Money Management



Grade: 9-12

Prerequisite: N/A

Recommended: N/A

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 on every day 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

Length: Half Year

Credit: .5

Examination: Local

This course is designed to provide students with a hands-on approach to explore a variety of computer software applications and productivity tools used by business. Topics in this course will include application of various Microsoft Office programs such as Word, Excel, Publisher, Powerpoint, Wevideo, as well as the Internet and various Google Applications.

## Computer Video Production

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

Length: Half Year

Credit: .5

Examination: Local

CVP is a half-year course designed to teach students business concepts and community service through the creative avenue of film. (Ex: public service announcements, commercials, event coverage) Students create their own production studios and implement business concepts including finance, staffing, brainstorming, planning and scheduling, communications, budgeting and accounting, and marketing. This course is designed to challenge students to produce quality products and requires serious commitment to the program.

\*This course will next be offered during the 2019-20 school year and will be offered in alternating years.

## Outdoor Business Management

Grade: 9-12

Prerequisite: N/A

Recommended: Any business course

Length: Half Year

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 are 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

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

## Applied Digital Skills

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

Length: Half Year  
Credit: .5  
Examination: Local

In this course, students will be exposed to college and career digital skill. New applications will be introduced, explored and built upon. Students will learn to apply these skills to various projects such as: website design, portfolio creation, and graphic design. These projects will incorporate the following skills while creating these projects: keyboarding, document creation and formatting, effective presentations, fundamentals of spreadsheets, design concepts, and movie making. Makerspace activities will be used to advance critical thinking and coding concepts will also be explored. Study skills, research skills, digital literacy, and digital citizenship will be infused throughout this course.

## Entrepreneurship I



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

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. Major topics include the entrepreneurship perspective, characteristics of successful entrepreneurs, starting and developing the 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 creates 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

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 lead 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 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 you did not get it in Entrepreneurship I.

## Accounting

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

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. 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

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.

# TECHNOLOGY

Department Head: Kevin Geiger

## Design & Drawing for Production (DDP)

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

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

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: 10-11  
Prerequisite: Graphic Communications I  
Recommended: Digital Photography & Accounting

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: N/A

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

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.

## CAD I



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

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: DDP and CAD I  
Recommended: N/A

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

**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.

## Interior Design

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

**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.

## Material Processing I

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

**Length:** Half Year  
**Credit:** .5  
**Examination:** Local

Developing an appreciation for fine quality craftsmanship and achieving a sense of pride and respect for all people and tools are the main goals of this class. Students will gain a working knowledge of wood handling through demonstration and experimentation. Students will utilize hand tools & machinery by constructing an introductory project. The remainder of the marking period students will design and build a project of choice every 5 weeks. Evaluation is based on safe lab procedures, portfolio development, and work habits. Emphasis is placed on quality and working safely. During the first marking period much time is devoted to teaching the safety aspects of each tool, and major pieces of machinery. Students are working on measuring, fraction work and how these skills will apply to their project work. The month of October focuses on designing the first project which will be constructed during that month.

## Material Processing II

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

**Length:** Half Year  
**Credit:** .5  
**Examination:** Local

Students will research period furniture and styles. Students will incorporate one characteristic from their period furniture research into their 1st project. Students will continue to work safety and build quality projects of their choice.

## MST I

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

**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 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.

# FAMILY AND CONSUMER SCIENCE

Department Head: Kevin Geiger

## Principles of Food Science

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

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. Principles of Food Science demonstrates how the laws of science are at work in the preparation of food, both at home and in industry. This course is designed for those students interested in pursuing careers in the food service and/or food processing industry.

# MUSIC

Department Head: Cristyn Reynolds

## 9-12 Mixed Chorus

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

Length: Full Year  
Credit: 1  
Examination: Local

Mixed Chorus is comprised 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.

## Chamber Singers

Grade: 9-12  
Prerequisite: \*Audition Required and Student must be enrolled in 9-12 Chorus  
Recommended: N/A

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 Chamber Singers present 2 major programs throughout the school year which includes: The Madrigal Dinner and Pop Night at the Bistro. The music performed is Acappella and Vocal Jazz. Students in this ensemble participate in All-County, Area All-State, Solo Festival and ACDA Eastern/National Conferences. If you are interested, please see Mr. D'Agostino for audition requirements.

## 9-12 Concert Band

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

Length: Full Year  
Credit: 1  
Examination: Local

The Dansville High School Concert Band is comprised of 9-12 grade students who currently attend Dansville Central School District. Auditions are required for seating assignments in 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

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 only. (If the band student does not currently study percussion, but is interested in this class, please see Mrs. Mark for approval.) This course is for band students that would prefer to concentrate only on the drum line, 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.

## Music Theory

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

Length: Full Year  
Credit: 1  
Examination: Local

Music Theory educates students on how to read, analyze, notate, and sight-read musical excerpts. It is in this class that 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.

## History of Rock & Roll

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

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 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.



# ART

Department Head: Greg McMaster

## Studio in Art

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

Length: Full Year  
Credit: 1  
Examination: Local

This course 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.

## Arts Exploratory

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

Length: Full Year  
Credit: 1  
Examination: Local

This beginner level art course has a focus on exploration of materials, learning basic art vocabulary, and developing motor skills within the art room. Students will focus on technical skill 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.

## Drawing & Painting

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

Length: Full Year  
Credit: 1  
Examination: Local

A **beginning to 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 are stressed. Colored and traditional pencil, chalk, and 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.

## Advanced Studio in Art History

Grade: 10-12  
Prerequisite: Studio in Art  
Recommended: Drawing and Painting

Length: Full Year  
Credit: 1  
Examination: Local

This 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.

## Public Art I

Grade: 11-12  
Prerequisite: Draw/Paint OR Advanced Studio in Art History  
Recommended: N/A

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.

## Public Art II

Grade: 12  
Prerequisite: Public Art I  
Recommended: N/A

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

## Ceramics I & Ceramics II

Grade: 11-12

Prerequisite: Draw/Paint OR Advanced Studio in Art History

Recommended: N/A

Length: Fall I/Spring II

Credit: .5/.5

Examination: Local

A **beginning** (I) and **intermediate** (II) level of art course offered to allow students to gain mastery and appreciation of clay, both as a natural element and a mode of creative expression. The fall class includes an introduction to materials and basic clay hand building techniques such as coil, slab, drape, and pinch. Ceramics II is a continuation of Ceramics I in the spring, aimed at providing students the opportunity to develop greater mastery of technique through completion of more difficult projects. The wheel throwing technique will be taught at this time.

## Digital Photography I & Digital Photography II

Grade: 11-12

Prerequisite: Draw/Paint OR Advanced Studio in Art History

Recommended: N/A

Length: Fall I/Spring II

Credit: .5/.5

Examination: Local

A **beginning** (I) and **intermediate** (II) level course focusing on the art of capturing images with a camera. 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 emphasis on developing a strong personal aesthetic while gathering a breadth of knowledge. Photo II allows students to go more in depth within specific areas of interest.

## Contemporary Crafts

Grade: 11-12

Prerequisite: Draw/Paint OR Advanced Studio in Art History

Recommended: N/A

Length: Half Year (Spring)

Credit: .5

Examination: Local

An **intermediate** art class, which will focus on the theory that form follows function. This class will build on 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.

**\*This course will next be offered during the 2018-19 school year and will be offered in alternating years.**

## Design & Illustration

Grade: 11-12

Prerequisite: Draw/Paint OR Advanced Studio in Art History

Recommended: N/A

Length: Full Year

Credit: 1

Examination: Local

This is an **advanced level** course and is designed to help students develop knowledge and understanding of aesthetic principles and compositional skills in design. Students will find solutions to problems and transfer ideas to drawings. Designs will be created in pen and ink, cut paper, marker, etc. Computer design will also be introduced. A portfolio aspect will be introduced. Students will be required to keep a sketchbook.

**\*This course will next be offered during the 2018-19 school year and will be offered in alternating years.**

## Visual Books

Grade: 11-12

Prerequisite: Draw/Paint OR Advanced Studio in Art History

Recommended: N/A

Length: Half Year (Fall)

Credit: .5

Examination: Local

An **intermediate** art class, which will introduce students to 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.

**\*This course will next be offered during the 2018-19 school year and will be offered in alternating years.**

## Digital Art

Grade: 11-12

Prerequisite: Draw/Paint OR Advanced Studio in Art History

Recommended: N/A

Length: Half Year (Fall)

Credit: .5

Examination: Local

An **intermediate level** art class, which 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.

**\*This course will next be offered during the 2019-20 school year and will be offered in alternating years.**

# ART

## Mixed Media

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

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 exploration of materials, idea development and craftsmanship. **\*This course will next be offered during the 2019-20 school year and will be offered in alternating years.**

## Sculpture

Grade: 11-12  
Prerequisite: Draw/Paint OR Advanced Studio in Art History  
Recommended: N/A

Length: Half Year (Spring)  
Credit: .5  
Examination: Local

This **intermediate level** art class will expose students to a wide variety of sculpture techniques. Media to be explored may include cardboard, found objects, fibers, ceramics, papier mache, reeds, and more! Students will focus on transforming 2-dimensional ideas into 3-dimensional artworks that have sculptural integrity, strong craftsmanship, and represent a personal aesthetic. **\*This course will next be offered during the 2019-20 school year and will be offered in alternating years.**

## Advanced Art – 2D



Grade: 11-12  
Prerequisite: Draw/Paint OR Advanced Studio in Art History  
Recommended: N/A

Length: Full Year  
Credit: 1  
Examination: Local

A **PRE-AP** in which students will work with drawing, painting, and mixed media materials in more depth. This course builds on 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: Ceramic I & II  
Recommended: N/A

Length: Full Year  
Credit: 1  
Examination: Local

An **advanced** 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 Studio in Art



Grade: 12  
Prerequisite: Advanced Art 2-D  
Recommended: N/A

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.

# PHYSICAL EDUCATION & HEALTH

Department Head: Sean Race

\*Additional Physical Education courses may be taken as an elective credit.

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

## Physical Education

Grade: 9-12

Prerequisite: N/A

Recommended: N/A

Length: Full Year

Credit: .5

Examination: Local

All students are required to participate in gym 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

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

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

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

Length: Half Year

Credit: .5

Examination: Local

Students learn about physical fitness and the relationship between physical, mental, and social health. Education about diseases such as cancer, heart disease, and diabetes is included as well as information about mental and emotional health, human sexuality, drugs and alcohol, and family living.

# VOCATIONAL EDUCATION

(BOCES) – All courses are for a full year

## Animal Science

This course is for students who have a desire to work with large and/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. Coursework is geared to the interests and career direction of the individual student.

## Auto Body Repair

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

## Automotive Technology – General Program

In this course, students acquire the skills necessary to diagnose, maintain, and repair all systems of automobiles and light trucks, while working with modern diagnostic equipment.

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

This program provides students with a background applicable to both residential and commercial construction. Students will learn technical skills in specialized areas of carpentry and cabinetmaking, residential wiring, plumbing, and heating. Training occurs in machine operations, test equipment, hand tools, portable and stationary power tools, pneumatic tools and rigging. Students will construct a house each year, on site.

## Computer Information Systems

The computer Information Systems program empowers students to gain hands on experience in computer applications, computer programming, networking, systems operations and web design. This is a broad-based program, which exposes students to the full complement of computers in the workplace. Students will decide to pursue a career based in Information Technology, Programming, Networking or Office Technology. Students may also satisfy the requirements for general computer electives through GCC.

## Conservation/Introduction Heavy Equipment

Students learn how to safely operate and maintain outdoor equipment such as backhoes, bulldozers, dump trucks, chainsaws, wood chippers, forestry tools, and tools of measurement. Students participate in a variety of learning activities such as tree identification and maintenance, woodlot management, soil excavation and grading, pond and drainage projects, and many other skills needed for environmental and outdoor careers. Students are given the opportunity to apply excavation landscaping skills in cooperation with the Building Trades house site construction project. The Diesel Mechanics/Small Engine Repair curriculum includes hydraulics, fuel systems, electrical systems, maintenance, tools and precision instruments, welding, and diagnostic procedures. Emphasis is on safety and responsibility. Career opportunities include highway departments, excavating and construction, building and grounds maintenance, logging and sawmill operation, trucking, and other related fields.

## Cosmetology

Students learn the latest techniques in hair, nail, and skin care in a modern, fully-equipped classroom salon. Advanced students apply their skills in our salon environment. Students who complete 1000 hours and pass the course will be eligible to take the NYS licensing exam. A cosmetology license allows you to practice all aspects of hair, skin, and nail care.

## Criminal Justice

Students explore opportunities in the field of criminal justice while learning about our legal system. Coursework 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 project culminates the school year.

## Culinary Arts

Students prepare food in a large commercial kitchen and manage the Culinary Arts Café and Dining Room. Instruction includes safety and sanitation, 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, and provide dining room and banquet service. Semi-skilled areas of employment upon graduation include cook, prep-cook, dietetic aide, and baking assistant. Upon further training (two-year degree), employment opportunities include chef, baker, dining room manager, catering manager, assistant manager, purchasing agent, and food service supervisor. With a four-year degree, employment opportunities include executive chef, dietitian, manager, and pastry chef.

# VOCATIONAL EDUCATION

## Diesel Mechanics

Heavy Equipment Truck and Diesel Mechanics is a two-year program open to all high school juniors and seniors. Students who have found an interest in working with machines in the construction, agriculture, auto/diesel machining, trucking, lawn and garden industry, welding and Armed Forces should consider this program. Students will test and rebuild fuel system components. They will also machine cylinder heads and block for rebuilding. Students will be working on trucks (pickups and semis), tractors, forklifts, backhoes, bulldozers, lawnmowers and small engines. Students will work also in groups for engine and transmission teardown, overhaul and failure analysis.

## Human Services

This program prepares students for a wide range of career opportunities in the human service field. Through practical work experiences, students will develop high level skills needed to interact with people of all ages in a variety of environments (i.e. classrooms, child care centers, and human services agencies.) Students in this program will have the opportunity to become certified in First Aid and Community CPR, as well as beginning work on a Child Development Associate certificate granted through the National Association for Education of Young Children.

## Health Dimensions

Students in this course will spend time in local facilities working collaboratively with actual clients. Students may also receive certification in First Aid, Adult CPR, Child and Infant CPR, AED, and Child Abuse Reporting.

## Metal Trades

Students learn how to setup and operate machining and welding equipment. Hands on instruction is provided in the use of lathes, milling machines, grinders, drill presses, computer numerically controlled (CNC) lathes and milling machines, and electrical discharge machines (EDM). Students develop “hands-on” skills in each of the major welding and cutting processes including oxy acetylene, TIG, MIG, stick, plasma arc, and air carbon arc. Students will become familiar with the tools and equipment associated with this trade. Units of study that are interwoven throughout the program include safety, computer aided drafting and design (CAD), Measurement, layout, heat treating, trade math, and communication skills.

## College Tech Prep Health Careers Academy



This course of study is designed to provide 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 healthcare facilities. Students applying for the Academy should have plans to attend college or technical school in a healthcare field, be presently enrolled or have successfully completed Chemistry, and possess at least a B-average. This program offers GCC 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



This course of study is designed to provide students with a strong foundation in Sports Science related careers such as Fitness and Recreation Management, Sports Management, Personal Trainer, Coaching, Athletic Director, Sports Retail, Facilities Management, and Physical Therapy Assistant. Students applying for the Sports Science Academy should have plans to attend college or a technical school with a sincere interest in pursuing a career in a Sports Science related field, have the maturity and ability to work both independently and on teams, and have maintained at least a B-average or higher. This program offers students 14 GCC college credits at a reduced cost of tuition with the opportunity to experience job shadows in a variety of settings and earn Red Cross certification in First Aid and CPR.

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



The WNY Tech Academy is an Early College High School that supports committed and hard-working students in grades 9-14 and provides a 6-year pathway to a high school diploma and a 2-year college degree – all at no cost to students or their families. Students who attend The WNY Tech Academy will get four years of Regents-based curriculum plus focused STEM (Science, Technology, Engineering, and Math) courses, guest speakers from local businesses and higher education, as well as opportunities for job shadowing and internship experiences. The WNY Tech Academy goal is 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.

**\*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).**