

DANSVILLE HIGH SCHOOL



2017-2018 COURSE DESCRIPTION BOOK

TABLE OF CONTENTS

	Page
Table of Contents	2
Steps in the Course Selection Process	3
Dual Credit Options at Dansville High School	4
Graduation Requirements	5
Diploma Options	6
Course Designations	7
English Language Arts	8
Languages Other Than English	10
Social Studies	12
Math	15
Science	18
Business	20
Technology	22
Family and Consumer Science (FACS)	24
Music	25
Art	27
Physical Education	30
Vocational Programming (BOCES)	31

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is ever a time when a course is dropped after this drop/add period, the student's transcript will show the course as withdrawn.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 counselor. 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 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 5th day of the first semester:

- If a student wishes to drop a full-year course between the 6th and 10th 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 5th day of the second semester:

- If a student wishes to drop a half-year course between the 6th and 10th 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.

DUAL CREDIT CLASSES

Students at Dansville High School have multiple opportunities to earn college credit for 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. To this end, Dansville 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.

<u>Dansville Course Name</u>	<u>College Course Name</u>	<u>Credit</u>
AP English Language and Composition	GCC ENG 101	3
AP English Literature & Composition	GCC ENG 105	3
French 201	GCC FRE 201	3
Spanish 201	GCC SPA 201	3
AP World History	GCC HIS 101 & 102	3 each semester
AP United States History	GCC HIS 203 & 204	3 each semester
AP Government	GCC POS 101	3
Statistics	GCC MAT 129	3
AP Statistics	GCC MAT 129	3
Applied Algebra 2/Trig	GCC MAT 102	3
Algebra III	GCC MAT 136	3
Honors Pre-Calc	GCC MAT 140	4
AP Calculus AB	GCC MAT 141	4
Chemistry	GCC CHE 101	4
AP Chemistry	GCC CHE 102	4
Physics	GCC PHY 121	4
AP Physics	GCC PHY 121	4
Honors Personal Money Management	GCC BUS 110	3
Entrepreneurship	GCC BUS 101	3
CAD I	GCC ERG 118	3
CAD II/Architecture	GCC EGR 103	3

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:

<u>Required Courses</u>	<u>Regents Diploma</u>	<u>Required Exams</u>
English	4 credits	Common Core Regents English Exam
Social Studies	4 credits	1 Social Studies Exam
Math	3 Credits	1 Math Regents Exam
Science	3 Credits	1 Science Regents Exam
Languages Other Than English	1 Credit	Locally Developed Checkpoint A Exam
Art/Music	1 Credit	
Health	.5 Credit	
Physical Education	2 Credits	
Electives	3.5 Credits	
Pathway Exam	N/A	1 Additional Exam
TOTAL	22 Credits	

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/diploma-credential-summary.pdf> The next page shows diplomas with academic honor designation

DIPLOMA OPTIONS

DIPLOMA OPTIONS

Diploma Type	Available to	Links for More Information
Regents Diploma	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#regentsdiploma
Regents with Advanced Designation	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD
Regents Diploma (through appeal)	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#regpasscore
Local Diploma (through appeal)	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#regpasscore
Local Diploma	Students with disabilities with an Individualized Education Plan or 504 Accommodation Plan	Low Pass Safety Net Option- http://www.p12.nysed.gov/part100/pages/1005.html#assessment Compensatory Safety Net Option- http://www.p12.nysed.gov/specialed/publications/safetynetcompensatoryoption.html

CREDENTIAL OPTIONS

Credential Type	Available to	Link for More Information
Career Development and Occupational Studies Commencement Credential (CDOS)	All students other than those assessed using the NYS Alternate Assessment	http://www.p12.nysed.gov/specialed/publications/CDOScredential-memo-613.htm
Skills and Achievements Commencement Credential	Students with severe disabilities that are assessed using the NYS Alternate Assessment	http://www.p12.nysed.gov/specialed/publications/SACCmemo.htm

COURSE DESIGNATIONS

DESIGNATION OF ACADEMIC HONORS ACHIEVEMENT

Diploma Type	Available to	Link for More Information
Regents with Honors	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors
Regents with Advanced Designation with Honors	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors
Regents with Advanced Designation with annotation that denotes Mastery in Math	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD
Regents with Advanced Designation with annotation that denotes Mastery in Science	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#regentsAD
Regents with Advanced Designation with Honors and annotation that denotes Mastery in Science and Math	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#diplomaHonors
Local Diploma, Regents Diploma, Regents Diploma with Advanced Designation (with or without Honors) with a Career and Technical Education Endorsement	All Students	http://www.p12.nysed.gov/part100/pages/1005.html#carteched

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.

ENGLISH LANGUAGE ARTS

Department Head: Janelle Rinker

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 of study 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 non-fiction. 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.

Pre-AP English (Honors)

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: English 10

Recommended: N/A



Length: Full Year

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 or 12

Prerequisite: Pre-AP English & Pass Common Core English Regents

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 & Comp



Grade: 11 or 12

Prerequisite: English 10

Recommended: Pre-AP English

Length: Full Year

Credit: 1

Examination: AP Exam

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. This is a college-level (ENG105) literature and composition course where students engage in an intense study of representative works from widely recognized American and British literature. Through speaking, listening, and reading, but chiefly through their own writing, students will become more aware of the resources of language: connotation, metaphor, irony, syntax, and tone. Independent work is expected with a heavy emphasis on reading and writing. Class participation is essential.

Issues in Science Fiction

Grade: 9-12

Prerequisite: English 8

Recommended: N/A

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 film-making 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 III/Spanish III

Recommended: French 201/Spanish 201

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.

LANGUAGES OTHER THAN ENGLISH (LOTE)

Spanish for Heritage Learners

Grade Level: 8-10

Prerequisite: N/A

Recommended: Native/Bilingual Speaking Ability

Length of Course: Full year

Credits: 1

Examination: Local

This is the initial course for Spanish Heritage Learners. This course will focus on the development of formal language skills, especially in the areas of reading and writing. It is intended for students who have native/bilingual speaking ability, but who have limited exposure to or instruction in the written language. This class will satisfy the LOTE graduation requirement for heritage speaker of Spanish in place of the traditional Level I LOTE class.

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.

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.

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. It involves the study of geography, history, government, economics, and world cultures and is taught chronologically, covering the pre-historic 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 products based upon their research.

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 pre-historic world through the 15th 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 10th 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 (HIS101, HIS102.) 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 9th 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.

SOCIAL STUDIES

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 (HIS201, HIS202). 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.

Government

Grade: 12

Prerequisite: United States History and Govt.

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 11th 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: United States History and Govt.

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: United States History and Govt.

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 Macro-Economics



Grade: 12

Prerequisite: United States History and Govt.

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.

SOCIAL STUDIES

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.

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.

MATH

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.*

SAT Math Prep

Grade: 11+
Prerequisite: N/A
Recommended: N/A

Length: Half Year
Credit: .25
Examination: Local

*This course will prepare students for the math portion of the SAT Exam. The focus of the course will to help students prepare for, and excel on the math portion of the SAT Exam. The course will cover instruction on various sample questions from the SAT College Board, as well as test taking strategies for the SAT Exam. Classes meet on an A/B-Day rotation. *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 1B
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.

MATH

Geometry



Grade: 10
Prerequisite: 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
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.

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 and Geometry. Topics include linear relationships, matrices, linear systems, quadratics, exponential functions, and rational expressions. Additionally, statistics and various trigonometric topics will be studied. This course will conclude with a local exam in June. *NCAA approved for .5 course credit.*

Algebra III



Grade: 11
Prerequisite: 2 Math credits & 1 Regents Exam Credit
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. *NCAA approved for .5 course credit*

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.*

MATH

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. While it is not yet offered as an official AP course, CSP is designed to be a full year course that is a 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). Computational thinking practices capture important aspects of the work that computer scientists engage in. These practices are essential to the experience of doing work in computing. They represent higher order thinking skills, behaviors, and habits of mind that need to be constantly visited, repeatedly honed, and refined over time.

Statistics



Grade: 11-12

Prerequisite: Algebra I, Applied Algebra II, or Algebra II

Recommended: N/A

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.

AP Statistics



Grade: 11-12

Prerequisite: Algebra2/Trig OR Algebra II

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.

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.

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 a 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.

SCIENCE

Department Head: Nichelle Allen

Physical Setting Science

Grade: 9

Prerequisite: Science 8

Recommended: N/A

Length: Full Year

Credit: 1

Examination: Local

*This course investigates science content including weather, ecology, geology and energy systems with an emphasis on the scientific method, lab techniques and graphical analysis. This course is designed to prepare students for future success in Regents Earth Science, Living Environment, and/or Biology. *Not NCAA approved for core credit.*

Living Environment



Grade: 9

Prerequisite: Science 8

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: Living Environment

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.

Biology



Grade: 9

Prerequisite: Science 8

Recommended: Teacher Recommendation

Length: Full Year

Credit: 1

Examination: NYS Regents Exam

Biology is an introductory course which follows a locally developed, Regents level biology syllabus that prepares students for the Living Environment Regents. This course will offer students a slower pace with more individualized attention than Living Environment class. Areas of study include Cells, Genetics, Reproduction and Development, Homeostasis, and Ecology. It will be a requirement that 1200 minutes of laboratory exercises be completed prior to taking the Living Environment Regents exam in June.

AP Biology



Grade: 11

Prerequisite: Completion of 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.

SCIENCE

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.

AP Chemistry



Grade: 11-12

Prerequisite: 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.

Physics



Grade: 11-12

Prerequisite: Chemistry & Chemistry Regents Exam

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.

General Physics

Grade: 11-12

Prerequisite: 1 Science Credit 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: 12

Prerequisite: Regents Chemistry 85% or better

Recommended: N/A

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.

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 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.

** 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.*

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, Power Point, We Video, 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.

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.

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 (BUS110) 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

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.

Entrepreneurship



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

Length: Full Year
Credit: 1
Examination: Local

This college credit-bearing course offered through GCC (BUS101) 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 3-D printer. The "virtual" business venture involves multiple area schools that each create virtual businesses in which the participating students learn the basics of establishing, managing, financing, etc. their business. These businesses interact with each other simulating a virtual economy.

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

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.

Graphic Communications

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

Length: Half Year
Credit: .5
Examination: Local

This course will expand upon the basic concepts that were covered in the course 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 or 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 Genesee Community College 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 Genesee Community College 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 into 10th - 12th grade classrooms. Using hands-on and project based learning strategies, the 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. Our CADI III coursework will provide students with opportunities to solve real world design problems, engage with industry standard technology, and transform concepts into reality by using a 3D printer.

Material Processing I

Grade: 10-12
Prerequisite: 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.

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.

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

The Dansville Mixed Chorus is comprised of 9-12 grade students who currently attend Dansville Central School District. 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

***Audition Required**

Grade: 9-12
Prerequisite: Student must be enrolled in 9-12 Chorus
Recommended: N/A

Length: Full Year
Credit: .5
Examination:

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 half-time 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 Drum Line

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 Drum Line 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.

MUSIC

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 history of rock and roll. The course is split up into two sections. For the first half of the year we will learn about the blues, jazz, and other music idioms that have influenced and developed rock and roll into what it has transformed into today. Students are learning about the inner workings of basic music and will compose their own music based on the different styles of music that we learn about. Students will also do extensive listening to music and learn how to critique music so that they have an understanding as to how musicians construct a piece of music. Students are expected to know basic vocabulary and events that link world history and music together. Students will 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 Principals of Design (balance, movement, contrast, rhythm, pattern, unity and emphasis) are stressed in this course. This course is a pre-requisite for all other art classes and it fulfills a student's one year of fine art credit to graduate.*

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.*

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 2-D and 3-D 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.*

Public Art

Grade: 11-12
Pre-requisite: Draw/Paint OR Recommendation from Art Teacher
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.*

Design & Illustration

Grade: 11-12
Prerequisite: Draw/Paint OR Recommendation from Art Teacher
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.*

ART

Ceramics I & Ceramics II

Grade: 11-12

Prerequisite: Draw/Paint OR Recommendation from Art Teacher

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 Recommendation from Art Teacher

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.

Digital Art

Grade: 11-12

Prerequisite: Draw/Paint OR Recommendation from Art Teacher

Recommended: N/A

Length: Half Year

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.

Sculpture

Grade: 11-12

Prerequisite: Draw/Paint OR Recommendation from Art Teacher

Recommended: N/A

Length: Half Year

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 in to 3-dimensional artworks that have sculptural integrity, strong craftsmanship, and represent a personal aesthetic.

Contemporary Crafts

Grade: 11-12

Prerequisite: Draw/Paint OR Recommendation from Art Teacher

Recommended: N/A

Length: Half Year

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.

Visual Books

Grade: 11-12

Pre-requisite: Draw/Paint OR Recommendation from Art Teacher

Recommended: N/A

Length: Half Year

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.

ART

Advanced Art – Two-Dimensional

Grade: 11-12

Prerequisite: Draw/Paint

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 8th 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 – Three-Dimensional

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: Draw/Paint and 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

Department Head: Sean Race

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 well being 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.

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.

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 pre-tests and post-tests to assess fitness levels.

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 cabinet making, 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, chain saws, wood chippers, forestry tools, and tools of measurement. Students participate in a variety of learning activities such as tree identification and maintenance, wood lot 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.

VOCATIONAL EDUCATION

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.

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 set-up 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 oxyacetylene, 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 Technical Preparatory Classes

College Tech Prep Health Careers Academy



This course of study is designed to provide students with a broad knowledge of the health care industry. Students explore multidisciplinary health care professions and current biotechnology through on-site observations at local hospitals and other health care facilities. Students applying for the Academy should have plans to attend college or technical school in a health care 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.