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## PLANNING YOUR HIGH SCHOOL PROGRAM

Danbury High School is a comprehensive high school which includes grades nine, ten, eleven, and twelve. An array of courses is available to students.

Careful planning of your high school program is critical as the courses you select now will impact the options available to you after graduation. We cannot emphasize strongly enough the vital importance of the thought and planning that should be given to the process of program and course selection. Placement in courses is accomplished with input from you and your family, along with that of your teachers and guidance counselor. Our mutual goal is to design an academic program which is challenging and satisfies your individual needs. We suggest that you consider factors such as graduation requirements, your short and long term interests and goals, career goals and academic interests. When selecting courses, conference with your counselor, seek information from your teachers, and talk to your family. Administrators, department heads, and upperclassmen may also furnish you with valuable information and insights based upon their experiences in various subject areas.

The result of this thorough and serious process of course selection is registration. This is the actual process of recording your specific choice of courses for the next school year. These choices that you and your classmates make provide us with the information necessary to develop our master schedule. Using this information, we are able to determine what number of classes to offer in each subject area, the periods during which each can be taught with the fewest possible conflicts, and the teachers who will be teaching each class. Consequently, once you register for your courses, only educationally sound changes with parent/guardian and administrative approval may be made.

Please use this information as intended. It is a guide. Information and course summaries included here should be supplemented with further research and inquiry. If you have questions or doubt about the content, requirements, or suitability of any course, please see your guidance counselor for further direction.

### **NON-DISCRIMINATION POLICY**

**Federal and State Law and the policy of the Danbury Board of Education prohibit discrimination on the basis of sex, race, color, religion, national origin, age, sexual orientation, military or veteran status or past or present physical or mental disability. No person in the Danbury Public Schools shall be excluded from participation in, or be denied the benefits of any education program or activity. Inquiries concerning the discrimination, compliance or grievance procedures may be directed to Mrs. Kimberly Thompson, Director of Human Resources, Beaver Brook Center, 63 Beaver Brook Road, Danbury, CT 06810. Telephone: 203-797-4706**

A substantial selection of elective courses, extra-curricular activities, and clubs are available to supplement your academic program, and to develop your interests in social, cultural, civic, and leisure activities.

## GRADUATION REQUIREMENTS – CLASSES OF 2012, 2013, 2014

As of the 2011-2012 school year, students who successfully complete one year-long course will be awarded 1 credit. Students who successfully complete a semester course will be awarded .5 credit. Students who have been enrolled prior to the new credit granting system will have their existing credits automatically translated into the new system. Students should select courses that will satisfy their interests and equip them upon graduation, either for further education or with a salable skill to enter the working world. To qualify for a Danbury High School diploma, each student must acquire a minimum of 21 credits. The 21 credits are divided among the required areas as follows:

Requirements	Total Credits
English I, II, two additional years of English	4
Mathematics	3
U.S. History, Civics, three additional semesters of Social Studies	3
Biology, three additional semesters of science	2.5
Physical Education	1
Health	.5
Two semesters of Communications, Fine Arts, Business, Family & Consumer Sciences, or Technology Education	1
Student-selected electives	6
Technology/Computer Literacy Requirement (one semester required). See Page 3 for courses.	
<b>TOTAL</b>	<b>21</b>

In addition to the above-listed credit requirements students are required to master a **performance standard** in the areas of **writing, mathematics, and technology**. The standards are identified as follows:

**a. Writing**

- ❖ **Task** – Students will show mastery of the writing standard by producing an essay that is focused, organized, elaborated, and edited for English conventions.
- ❖ **Mastery may be demonstrated in the following ways:**
  - A score in Band 3, 4, or 5 on the Writing portion of CAPT or,
  - A verbal SAT score of 500 or above or,
  - Successful completion of the Mastery Essay which will be graded on a standardized rubric, using the Focus, Organization, Conventions, and Elaboration writing model in English II.

**b. Mathematics Literacy**

- ❖ **Task** – Students will show mastery of the mathematics standard by demonstrating the ability to solve a multi-step mathematical problem.
- ❖ **Mastery may be demonstrated in the following ways:**
  - A score in Band 3, 4, or 5 on the math portion of CAPT or,
  - A math PSAT/SAT score of 480 or above or,
  - Successful completion of three years math, all classes include “performance assessment” or,
  - Successful completion of an advanced mathematics course.

**c. Technology/Computer Literacy**

- ❖ **Task** – Students will show mastery of the technology standard by solving an authentic problem in accordance with technology project guidelines.
- ❖ **Mastery may be demonstrated in the following ways:**

- Successful completion of a computer-based course and mastery on a performance-based technology project planned, directed, and graded by the teacher using a standardized rubric or,
- Successful completion of an advanced computer course.

Additional options may be provided on an individual basis for students in Special Education and ESL/Bilingual programs.

**COURSES WHICH MAY BE USED FOR TECHNOLOGY/COMPUTER LITERACY CREDIT  
ONE SEMESTER REQUIRED**

**A.P. COMPUTER SCIENCE**

**ACCOUNTING I**

**ACCOUNTING II**

**ANIMATION I**

**ANIMATION II**

**ARCHITECTURAL DESIGN I**

**ARCHITECTURAL DESIGN II**

**BUSINESS COMPUTER TECHNOLOGY**

**COMPUTERS I – DESKTOP**

**PUBLISHING/COMPUTERS II – WEB DESIGN**

**COMPUTER/DIGITAL ARTS I**

**COMPUTER/DIGITAL ARTS II**

**COMPUTER-AIDED DRAFTING**

**COMPUTER SCI. I – INTRO. TO PROGRAMMING**

**COMPUTER SCI. II – ADVANCED PROGRAMMING**

**COMPUTER WEB MASTER**

**FOUNDATIONS OF TECHNOLOGY GAMING**

**GRAPHICS**

**GRAPHIC ARTS I**

**GRAPHIC ARTS II**

**INTRODUCTION TO MARKETING AND BUSINESS**

**MUSIC PRODUCTION THROUGH TECHNOLOGY**

**PERSONAL FINANCE**

**ROBOTICS**

**TECHNOLOGICAL ISSUES**

**WEB DESIGN**

**Graduation Requirements – Class of 2015 and Beyond**

In June 2010, the Danbury Board of Education adopted more prescriptive graduation requirements, and changes to the credit accounting system. Beginning in the 2011-2012 school year, students who successfully complete one year-long course will be awarded 1 credit. Students who successfully complete a semester course will be awarded .5 credit. Students should select courses that will satisfy their interests and equip them upon graduation, either for further education or with a salable skill to enter the working world. To qualify for a Danbury High School diploma, each student must acquire a minimum of 21 credits. The 21 credits are divided among the required areas as follows:

<b>Requirements</b>	<b>Total Credits</b>
Art, Music, or Communication Arts	1.0
Business, ROTC, Technology Education, or Family and Consumer Science	1.0
World Studies, Modern World Studies (or AP World History), U.S. History (or AP U.S. History), Civics (or AP Government & Politics)	3.5
World Language	1.0
English 1, 2, 3, 4 (Advanced Placement English courses can be taken in lieu of English 3 and 4)	4.0
Math (must include Algebra, Geometry, Algebra II or Statistics and Data)	3.0
Science (must include Biology and Chemistry)	3.0
Health	.5
Physical Education	1.0
Student Choice	3.0
<b>TOTAL</b>	<b>21.0</b>

**MARKING SYSTEM**

G.P.A. Points	Grade	Description	G.P.A. Points	Grade	Description
4.5	100	A+	2.3	78	C+
4.4	99	A+	2.2	77	C+
4.3	98	A+	2.1	76	C
4.2	97	A+	2.0	75	C
4.1	96	A	1.9	74	C
4.0	95	A	1.8	73	C
3.9	94	A	1.7	72	C-
3.8	93	A	1.6	71	C-
3.7	92	A-	1.5	70	C-
3.6	91	A-	1.4	69	D+
3.5	90	A-	1.3	68	D+
3.4	89	B+	1.2	67	D+
3.3	88	B+	1.1	66	D
3.2	87	B+	1.0	65	D
3.1	86	B	N/A	Under 65	F
3.0	85	B			CO-Credit Only
2.9	84	B			E-Satisfactory (Special Ed. Only)
2.8	83	B			H-Excused, no credit.
2.7	82	B-			I-Incomplete (Five (5) days to make up work, otherwise it becomes an F.)
2.6	81	B-			P-Pass
2.5	80	B-			WF-Withdrawn Failing
2.4	79	C+			WP-Withdrawn Passing

### **CREDIT SYSTEM (Revised by Board of Education June 2010)**

Credit is awarded on a semester basis. A first semester failure in a full year course cannot be made up by high grades in the second semester. The semester average determines passing or failing. No credit is given for a grade of F in a course, nor for repeating a course to improve grades if credit has already been earned in the same course.

The amount of credit for a course is usually determined by the number of times per week it meets, or at the rate of 0.1 credit for each period per semester as follows:

5/week=0.5 credit                      6/week=0.6 credit                      7/week=0.7 credit

Students who have been enrolled prior to the new credit granting system will have credits automatically translated into the new system.

### **COURSE LEVELS**

College Preparatory (College Prep) courses are the core course of study for all students at Danbury High School. While it is recognized that not all students will attend college, these courses will ensure that all students, if they so choose, are thoroughly prepared for the rigors of college. College Preparatory courses will also ensure that all students are prepared to be productive citizens in the global community in which we live.

Honors courses present students with the opportunity to learn the same content and skills in the College Preparatory courses, but at a more rigorous level. Students will be exposed to a wider breadth and deeper depth of study at the Honors level. Students in Honors courses can expect a heavier work load than those students enrolled in College Preparatory courses.

### **ADVANCED PLACEMENT PROGRAM**

The Advanced Placement Program (A.P.) of the College Board is a program of college-level examinations given to secondary school students each year in May. Most colleges give credit and/or advanced placement to students whose A.P. Examination grades are considered acceptable. Examinations are offered in most traditional academic subjects; A.P. credit in Studio Art is awarded through the evaluation of portfolios prepared to A.P. specifications. Credits earned through the A.P. Program may reduce college costs significantly and provide flexibility in college programs not available otherwise.

The fee for each A.P. Examination is approximately \$98. Limited fee reductions are available for students from families meeting certain federal low income standards. A.P. fees are higher than those for most other examinations because major portions of each examination are scored by readers from schools and colleges rather than by machine. All students enrolled in the A.P. courses must take the A.P. Examination. If this poses a financial hardship, please discuss this with your guidance counselor prior to registering.

Those who are interested in the possibility of obtaining college credit through the A.P. Program should plan well in advance. Information is available through teachers of advanced courses in each department, guidance counselors, the school A.P. Coordinator, and [www.collegeboard.com](http://www.collegeboard.com). Students should also consult catalogs and admissions officers of colleges they are interested in attending for current A.P. policies.

- **Advanced Placement is considered a full year course with a full year commitment.**
- **Testing fees will be collected in November at the end of the first marking period.**
- **Failure to take the A.P. test will result in the loss of A.P. designation on the report card and the transcript.**
- **Withdrawal from course after the first quarter will result in a WF for both semesters.**

#### Advanced Placement Calendar 2012-2013

Spring 2012	Register for A.P. courses
November 2012	Test fees collected
December 2012	Bulletin for Students and Studio Art specifications available
March 2013	Order examinations through course teachers or A.P. Coordinator
May 2013	Examinations administered
July 2013	Grade Reports released to students, colleges, and DHS

## **A.P. COURSE OFFERINGS**

<b>Course Name</b>	<b>Grade Level</b>
Studio Art	11, 12
Music Theory	11, 12
Computer Science	11, 12
English Language/WCSU	12
English Literature	11
Calculus AB	11,12
Calculus BC	11,12
Statistics	11,12
Chemistry/UConn*	11, 12
Physics*	11, 12
Biology/UConn*	11, 12
U.S. History	11, 12
Psychology	11, 12
European History	10, 11, 12
Geography	11, 12
Macroeconomics	11, 12
Government and Politics	11, 12
World History	10
French	12
Spanish	12
Environmental Science*	11, 12

\*Pre-requisite needed

### **COURSE SELECTION GUIDELINES**

1. In deciding the number of courses to select, the time required for out-of-class preparation in each course and the time available to do it (including study halls and home study) should be considered. Honors and Advanced Placement courses require additional time for preparation.
2. Level change requests after the first three (3) weeks of each semester will not be considered.
3. Semester courses dropped after the close of the 1st quarter will be automatically recorded as "WF" (withdrawal/failure).
4. Many courses have a limited number of sections, therefore it is possible that all courses selected by a student will not be scheduled due to conflicts or closing of courses. There will be no class in any course unless a sufficient number of students select it.
5. Prerequisite denotes successful completion of stated course.

### **CREDIT RECOVERY**

Credit Recovery class is an opportunity for students to recover credits they did not receive due to a failing grade in a specific course or courses. Only students who have previously taken a course and failed are eligible for Credit Recovery. Credit Recovery operates as an online program that allows students to move at their own pace. Students complete lessons and are tested on information they learn unit by unit. Upon completion of all course work, students will take a final exam and receive a grade of either PASS or FAIL. Students in Credit Recovery cannot take more than 2 semesters in one discipline area and can take no more than 8 semesters total. The attendance policy is the same with Credit Recovery as any other class. Students are expected to continue their online work at home to expedite the recovery of credit. Students interested in registering for Credit Recovery must obtain permission from their guidance counselor. The following Credit Recovery courses are offered:

English I, English II, English III, English IV, Prealgebra, Algebra I, Geometry, Algebra II, Biology, Chemistry, Physical Science, Earth Science, World History, U.S. History, Government, Spanish I, Career Essentials, Personal Finance, and Health.

### **CIAC / DANBURY ACADEMIC ELIGIBILITY RULES FOR ATHLETES**

To be eligible: All incoming first-year freshmen are automatically considered eligible upon entry into Danbury High School.

Student eligibility for participation in interscholastic athletics is decided in accordance with the Board of Education policy 7-400.

1. To maintain eligibility for participation in athletics a student must have achieved an overall "C" average for the courses completed in that marking period which preceded the interscholastic sports season. **(Note: For fall eligibility, final grades received in June must be used to calculate an average. Marking period grades for 1st, 2nd, and 3rd quarters are used at all other times.)** Eligibility grades at the end of the first semester will be based on the quarter grades that have earned credit. All grades earned in a summer school program will be added to the final grades to determine the academic average for fall eligibility. Failed courses, though made up, will NOT be eliminated in this calculation.

1. Where not contradicted by eligibility rules and regulations governed by the CIAC, a student that is classified as handicapped and enrolled in a special education program may be exempt from regulation #1 if the IEP contains a request for waiver of these requirements. **(Note: The waiver is valid only for the required "C" average.)**

Participation in interscholastic athletics is limited to those students registered in the Danbury Public Schools as governed by the CIAC and FCIAC eligibility standards. Students must follow all existing school practices as stated in the Board of Education's policies and regulations and the Danbury High School Student Handbook.

**Eligibility of each student athlete is determined when report cards are printed and mailed home or on the 14th calendar day following the end of the marking period, whichever comes first.**

**Athletes will also be declared ineligible if the following CIAC guidelines are not met.**

A student cannot at any time represent any Connecticut high school unless he/she is taking at least four units of work or its equivalent. During the school year, a student must pass at least four units of work in the marking period immediately preceding the contest. No unit of work for which the student has already received credit shall be included in those required by this rule. Incomplete grades are not considered to be passing grades.

# **SPECIAL PROGRAMS**

## **STUDENT INTERNSHIP**

## **YOUTH PARTICIPATION PROGRAM**

## **INDEPENDENT STUDY**

## **COLLEGE CREDIT COURSES**

## **LIBRARY / MEDIA CENTER**

## **STUDENT INTERNSHIP PROGRAM**

### **WHAT IS AN INTERNSHIP?**

The Student Internship Program is a school/community based program to give sophomores, juniors and seniors the option of spending 5 to 20 hours per week in an actual on-site training experience.

The fundamental goal of the program is to continue the learning process on the job of the student's choice guided by adults in the community. The specific objectives are 1) to apply learning in actual job situations; 2) to learn skills which are not offered in school; and 3) to allow opportunities for career exploration.

### **HOW DOES THE STUDENT OBTAIN ASSISTANCE?**

Students should make an appointment with their counselor who will assist them in selecting from a wide variety of internship programs. The students will select a program of their own choice, complete a registration form and return this form to their counselor. The counselor will make final arrangements, ensuring all students the opportunity to make a personal visit to their selected site.

### **CREDIT**

Students will receive credit only upon satisfactory progress. An evaluation will be completed by the sponsor at the end of the internship cycle. These evaluations will judge how well the student is achieving the goals and objectives of the program.

Credit will be granted for the hours spent on the job - up to 1 credit per year for 120 hours of internship. A minimum of 40 hours for .3 credit must be completed.

### **TRANSPORTATION**

Transportation is the student's responsibility. In no instance is the sponsor responsible for a student's transportation. The school will attempt to provide as much transportation as possible. There will be some locations to which the school cannot provide transportation.

## **INJURY**

Any injury, however slight, shall be reported immediately to the sponsor and as soon as possible to the nurse and the Main Office. All participants must have health insurance.

## **ATTENDANCE**

It is the students' responsibility to report on time to their assigned site and to sign in and out on the reporting form provided by the program coordinator. It is also the responsibility of students to call the sponsor in the event of lateness or absence. Authorized absences will be in accordance with school policy.

## **YOUTH PARTICIPATION PROGRAM**

### **DEFINITION**

The Youth Participation Program (Y.P.P.) provides an opportunity for DHS students to participate in a learning experience outside of the traditional classroom setting. Students may choose to assist at one of the numerous work sites or training stations within Danbury High School, including most offices, the student tutoring center, the Library/Media Center, and certain classes. Students may also choose to provide individualized assistance for staff members such as the athletic director, counselors, or Department Heads. Students are expected to participate to the extent of developing skills, providing necessary services, and assuming responsibilities and proper attitudes as expected by their supervisor. The objectives of this program are to provide non-paid work experience in career options, to involve students in the decision making process, and to provide students with an opportunity to participate in varied aspects of school life.

Students who wish to participate in the Y.P.P. program should contact their guidance counselors and fill out the application form which will include the following information:

1. The nature of the work to be performed.
2. The number of hours of work per week.
3. The number of weeks the program will last.
4. The name of the person in charge of the work area.

Credit allocations are as follows:

Semester, 1 period per week = 0.05  
Semester, 2 periods per week = 0.1  
Semester, 3 periods per week = 0.15  
Semester, 4 periods per week = 0.2  
Semester, 5 periods per week = 0.25

Full year, 1 period per week = 0.1  
Full year, 2 periods per week = 0.2  
Full year, 3 periods per week = 0.3  
Full year, 4 periods per week = 0.4  
Full year, 5 periods per week = 0.5

## **CRITERIA**

A Y.P.P. candidate must enroll, with the recommendation of a guidance counselor and an Assistant Principal or the Y.P.P. Coordinator, at the beginning of each semester. If the student is applying to work for an individual teacher, approval must also be obtained from the appropriate Department Head and the Associate Principal of Instruction. Y.P.P. is a program for in-school credit. A student can earn a maximum of .5 credit through Y.P.P. each year by working 5 periods per week for a full year. Students desiring credit for out-of-school activities should see the Guidance Counselor for information concerning enrollment in the Student Internship Program.

### **INDEPENDENT STUDY**

Any student enrolled in a planned instructional program through a supervising DHS teacher may receive recognition on official transcripts for such instruction. Credit will be approved by the high school principal upon successful completion of the following requirements:

1. Independent studies can only be requested if the course is not offered.
2. Proposals may not exceed one credit for a program during a student's high school career.
3. Four (4) copies of an application and course of study must be presented to the principal for approval at the beginning of the school year or semester. Credit will not be granted retroactively. The forms must have the signature and approval of the principal, a Department Head, the DHS supervising teacher and the student.
4. The application should include a description of course work to be undertaken in private study, information concerning private teacher, institution accreditation, and hours and duration of private instruction. Individual instruction should not include comparable areas of study offered by the school district. Credit to be earned will be determined upon the Department Heads review and recommendation to the principal.
5. After receiving the approval of school authorities, one copy of the application/course of study will be filed with the Department Head, one with the principal, one with the DHS supervising teacher, and one with the student.
6. At the end of the school semester or year, the DHS teacher will check the appropriate box on the application/course of study which indicates whether the student has successfully completed the program. The DHS teacher will provide two (2) interim and one (1) final written evaluation of the student's performance/work and sign the form, which will be forwarded to the Department Head.
7. The Department Head will review the teacher's evaluations and recommend to the principal whether credit will be granted. The principal shall award the school credit, determine the grade level, and record it in the official transcript.
8. In the event there is a disagreement at step 3 or 6, the matter will be referred to the Deputy Superintendent of schools for resolution. This decision can be appealed through the Superintendent of Schools.

### **COLLEGE CREDIT COURSES**

By arrangement with **Western Connecticut State University, Naugatuck Valley Community-Technical College, and the University of Connecticut**, courses are offered for which students may receive regular college credit at the above institutions and at other colleges and universities which will accept UConn, Naugatuck, or Western transfer credits. This year courses are offered in the Business, English, Foreign Language, Mathematics, Science, Social Studies and Technology Education Departments. Students may obtain details from their guidance counselor.

### **UCONN EARLY COLLEGE EXPERIENCE PROGRAM**

UConn Early College Experience (ECE) provides academically motivated students the opportunity to take university courses while still in high school. These challenging courses allow students to preview college work, build confidence in their readiness for college, and earn college credits that provide both an academic and a financial head-start on a college degree. ECE instructors, who are certified as adjunct professors by UConn faculty, create a classroom environment fostering independent learning, creativity and critical thinking – all of which are pivotal for success in college. DHS offers ECE courses in Family & Consumer Sciences, and Science. To support rigorous learning, UConn library resources are also available to students.

ECE students must successfully complete the course with a grade of C or better in order to receive university credit. University credits are highly transferable to other universities, but it is the student’s responsibility to check with specific universities for transfer of credit.

Students are charged a \$25 per credit fee in the fall. For additional information visit: [www.ece.uconn.edu](http://www.ece.uconn.edu) or <http://www.ece.uconn.edu/>.

### **LIBRARY/MEDIA CENTER**

The Library/Media Center welcomes all students and staff to use the materials and services available. Approximately 24,500 books, more than 55 magazine titles, and a growing collection of CD’s and DVD’s are updated continuously on curriculum-related topics and for leisure reading. A computer research network provides appropriate research tools for high school students. Classes use the Library/Media Center for research and production. There is an extensive, up-to-date recreational reading collection and throughout the year various programs promote student reading and writing.

The Library/Media Center is open from 6:50 a.m. until 3:00 p.m. every school day. Borrowed materials circulate for a period of three weeks, while special materials such as reference books, circulate overnight. Fines are charged for overdue materials.

### **GLOSSARY:**

**CREDITS:** A number generally corresponding to the number of class meetings per week.

**GRADE POINT AVERAGE:** Grade Point Average (GPA) is based on Quality Points earned divided by CREDITS earned. GPA may be computed for a single semester, a full year, or for all courses taken in the student’s academic history. The primary use of GPA is the determination of rank in class.

**GRADE POINT VALUE:** A numeric value associated with a grade. (See Marking System Table, pg. 4.)

**QUALITY POINTS:** The total points earned for a course.

The Danbury High School grading system has incorporated a weighting system for all courses offered in the curriculum. The system incorporates three various levels corresponding to the course content and/or intensity of the three levels is used in computing the QUALITY POINTS earned for a course.

The table below defines the WEIGHT FACTORS:

LEVEL	BASIC	COLLEGE PREP	HONORS	ADVANCED PLACEMENT
WEIGHT FACTOR	0.90	1.00	1.10	1.20

The QUALITY POINTS for a course shall be determined by multiplying the CREDITS by the appropriate WEIGHT FACTOR and by the GRADE POINT VALUE earned for that course. GRADE POINT AVERAGE (GPA) shall be equal to TOTAL QUALITY POINTS for a time period (semester, year, etc.) divided by TOTAL CREDITS for the same time period.

The only courses used for computing GPA shall be those which carry CREDIT and receive a grade.



# THE ACADEMY OF HEALTH AND BIOSCIENCE

Grades 11-12

This is an exploratory medical arts career program geared to acquaint students with multiple aspects of the health and bioscience fields. The program will use a hands-on approach where all subject areas are integrated. Students completing this Academy program will be prepared for *two or four year college programs, further State Certificate programs, or direct career employment*. Benefits beyond the experiential opportunities include:

- College credits
- Scholarships
- School awards
- Career awareness
- Career portfolio

The program will provide career counseling, aptitude testing, individualized instruction, enrichment, and academic mentorship. Applicants meeting the following criteria will be considered for enrollment into the health occupations programs (CNA or Health & BioScience Academy): Junior or senior standing, 16 years of age by 10/31/2012, less than 10 absences in previous school year; in good standing in science courses; up-to-date immunization records and physical examination on file. Submit application upon registration.

<b>FC371H HEALTH &amp; BIOSCIENCE I (HONORS)</b>	<b>11-12</b>	<b>1.4 Credits</b>
<b>SC311H ANATOMY &amp; PHYSIOLOGY (HONORS)</b>	<b>11-12</b>	<b>1.4 Credits</b>

The academy is a 3 period year long program that encompasses anatomy, physiology, pathophysiology and health care, along with hands on clinical placements in areas of interest or Nursing Assistant Training at Danbury Hospital. The course is taught in the classroom, lab, and hospital setting. Ethics, legal considerations, medical and surgical asepsis, body mechanics, medical language skills, first aid, an introduction to medical facilities, and careers within the field are some of the areas to be covered. Furthermore, the course will explore traditional medical diagnostics and treatments, as well as challenges posed by new technologies and alternative medicine. The course will prepare the student with knowledge of normal form and function of the human organ systems, with anatomical and physiological laboratory techniques, which may be applied outside the course; and with a working vocabulary of anatomical and physiological terms, which will allow further independent learning and application. College Career Pathways credits are available. This course fulfills the Health requirement and includes the CNA option. Prerequisite: B average in IPS, Biology, Chemistry, or permission of the instructor.

<b>FC364H</b>	<b>ACADEMY CERTIFIED NURSE ASSISTANT (CNA) PROGRAM (HONORS)</b>	<b>11-12</b>	<b>1 Credit</b>
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The Academy CNA program may be taken in the spring semester of Junior or Senior year. Students completing this program meet State requirements for certification (see CNA on page 47) and acquire additional skills such as electrocardiogramming. This class meets 10 periods per week. This course is an option included in FC371H and FC381H.

<b>FC381H HEALTH &amp; BIOSCIENCE II (HONORS)</b>	<b>12</b>	<b>1 Credit</b>
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These courses allow students to continue in experiential rotations in their senior year. Health and Anatomy & Physiology (FC371H, SC311H) are prerequisites, or successful completion of the full year Nursing Assistant Course (FC364H).

**DANBURY HIGH SCHOOL  
ACADEMY OF HEALTH AND BIOSCIENCES**

ACADEMY COURSES	AFFILIATE COURSES/PROGRAMS
ACADEMY CERTIFIED NURSING ASSISTANT (IN CONJUNCTION WITH HEALTH & BIOSCIENCE I and II)	BIOLOGY (SCIENCE DEPT.)
ANATOMY & PHYSIOLOGY	CERTIFIED NURSING ASSISTANT (FAMILY & CONSUMER SCIENCES DEPT.)
HEALTH & BIOSCIENCE I	CHEMISTRY (SCIENCE DEPT.)
HEALTH & BIOSCIENCE II	EMERGENCY MEDICAL TECHNICIAN (EMT) (INDEPENDENT STUDY WITH DANBURY HOSPITAL)
	FOODS & NUTRITION (FAMILY & CONSUMER SCIENCES DEPT.)
	MEDICAL ARTS CAREER ORIENTATION PATHWAY PROGRAM (IN COLLABORATION WITH THE NORTHWEST AREA HEALTH EDUCATION COUNCIL)
	MEDICAL INTERNSHIP PROJECT (IN COLLABORATION WITH EDUCATION CONNECTION)
	SOCIAL PSYCHOLOGY (FAMILY & CONSUMER SCIENCES DEPT.)
	SPORTS MEDICINE (SCIENCE DEPT.)
	THE HUMAN BODY IN HEALTH & DISEASE (SCIENCE DEPT.)
	UCONN BIOLOGY (SCIENCE DEPT.)

## AIR FORCE JUNIOR ROTC AEROSPACE SCIENCE

<b>Full Year Courses:</b>		<b>Half Year Courses:</b>
<b>RO101C</b>	<b>AEROSPACE SCIENCE I</b>	<b>NONE</b>
<b>RO201C</b>	<b>AEROSPACE SCIENCE II</b>	
<b>RO301C</b>	<b>AEROSPACE SCIENCE III</b>	
<b>RO401C</b>	<b>AEROSPACE SCIENCE IV</b>	

Air Force Junior Reserve Office Training Corps (AFJROTC) is a citizenship program for high school students in the ninth through twelfth grades. Although it has many similarities to college level ROTC, AFJROTC is not a military entrance program. Students are not recruited into the military. AFJROTC encourages its students to get involved in their local communities to produce well-informed and helpful citizens. Each year's Aerospace Science course work relates to a different theme. Examples include: Frontiers in Aviation History, The Science of Flight, and The Exploration of Space. To enhance classroom learning, students participate in extracurricular and social activities such as field trips, drill teams, honor guards, model rocketry, and evening functions. All ARJROTC courses also include a Wellness component each week.

All Aerospace Science courses are open to both boys and girls, are elective, and are options for other elective courses. All Aerospace Science students are required to wear the AFJROTC uniform (provided free) once per week and they are required to maintain certain minimum grooming standards. Failure to comply with either requirement will result in course failure and removal from the program.

All Aerospace Science classes meet once per day. Forty percent of the course deals with military and leadership training, physical fitness, and wellness. Sixty percent is devoted to aerospace academic studies.

All Aerospace Science students are expected to participate in extra and co-curricular activities. Clubs and teams usually meet once or twice per week between 2 and 4 P.M. On occasion, there is the possibility of an overnight field trip. All Aerospace Science students are expected to participate in the annual Memorial Day parade, Military Awards Banquet, Military Ball, and Dining-in.

**RO101C      AEROSPACE SCIENCE I (COLLEGE PREP)      9-10    1 Credit**

In this course, students explore topics concerning the aerospace age to gain an overall view of the aerospace industry. The course covers the history and early pioneers of man's efforts into aviation and space. It also takes a look at the aerospace community and its various components, with specific attention paid to civil aviation and the organization for national defense. It examines the physical principles of flight and the overall effect of scientific and technological developments of airpower and spacepower on warfare and on society. Forty percent of the course consists of Leadership Laboratory dealing with the fundamentals of military drill, customs and courtesies of the service, self-discipline, and citizenship training, as well as physical fitness and wellness. An Air Force uniform is used for the duration of the course. Students are expected to attend six after school sessions of two hours each. *This course augments other science courses offered in the high school, and students who take the course for one full year earn one semester of science credit.*

PREREQUISITE: Approval of instructor.

**RO201C      AEROSPACE SCIENCE II (COLLEGE PREP)      9-10    1 Credit**

In this course, students investigate the theory of flight, navigation, aerospace environment, and human requirements of flight. Forty percent of the course consists of intermediate Leadership Laboratory, speech communications, and command voice and military drill, as well as physical fitness and wellness. Students are expected to attend six after school sessions of two hours each. *This course augments other science courses offered in the high school, and students who take the course for one full year earn one semester of science credit.*

PREREQUISITE: Approval of instructor.

**RO301C      AEROSPACE SCIENCE III (COLLEGE PREP)      11-12    1 Credit**

In this course, students explore and conduct experiments in rocketry, space systems, propulsion systems, and space travel. Students also learn and apply the principles of systems engineering and the scientific method to complete a long-term group project in model rocketry. Forty percent of this course consists of advanced Leadership Laboratory applications (management of the corps of cadets), review of military customs and courtesies, and public speaking, as well as physical fitness and wellness. Students are expected to attend six after school sessions of two hours each. *This course augments other science courses offered in the high school, and students who take the course for one full year earn one semester of science credit.*

PREREQUISITE: Approval of instructor.

**RO401C AEROSPACE SCIENCE EDUCATION IV (COLLEGE PREP)      11-12      1 Credit**

In this course, "Cultural Studies: An Introduction to Global Awareness," students examine how various cultures are affected by developments in science and technology. They also explain the physical principles of energy use and how energy affects global relationships. Each of the following regions of the globe is examined: The Middle East, Asia, Africa, Russia & Former Soviet Republics, Latin America, and Europe. Forty percent of this course is Leadership Laboratory with emphasis on advanced management techniques in flight and squadron leadership, running a military organization, public speaking, and command responsibility, as well as physical fitness and wellness. Students are expected to attend six after school sessions of two hours each. *This course augments other science courses offered in the high school, and students who take the course for one full year earn one semester of science credit.*

PREREQUISITE: Approval of instructor.

# ART

Full Year Courses:		Half Year Courses:	
AR131C	Cartooning	AR224C	Ceramics Fundamentals
AR121C	Crafts	AR234C	Intermediate and Advanced Ceramics
AR101C	General Art	AR174C	Computer/Digital Arts I
AR111C	Major Art	AR184C	Computer/Digital Arts II
AR221H	Major Art II	AR204C	Animation I
AR301H	Major Art III (Honors)	AR214C	Animation II
AR901A	Studio Art (A.P.)	AR064C	Drawing Skills I
AR151C/ BU131C	Gaming Graphics/ Game Creation	AR074C	Drawing Skills II
AR141H	Web Design (Honors)	AR114C	Film Production I
AR161C	Fashion Photography	AR124C	Film Production II
		AR084C	Painting Skills
		AR024C	Sculpture I
		AR034C	Sculpture II

<b>ART CURRICULUM SEQUENCE</b>	
<b>INTRODUCTORY COURSES FOR ALL STUDENTS</b>	<b>ACCELERATED COURSES FOR ADVANCED STUDENTS</b>
CARTOONING	A.P. STUDIO ART
CERAMICS FUNDAMENTALS	MAJOR ART I
COMPUTER/DIGITAL ART	MAJOR ART II
CRAFTS	MAJOR ART III
ANIMATION	GAMING GRAPHICS/GAME CREATION
DRAWING SKILLS	WEB DESIGN
FILM	INTERMEDIATE & ADVANCED CERAMICS
GENERAL ART	
PAINTING SKILLS	
SCULPTURE	
FASHION PHOTOGRAPHY	

**AR101C      GENERAL ART (COLLEGE PREP)**

**9-10-11-12      1 Credit**

This is a studio course for students with an interest in art and who have a basic knowledge of processes, materials, and techniques. Subject matter includes drawing of objects and figures, painting, printmaking, and three-dimensional work. Media used include pencil, pen, and ink, water color, tempera, and papier mache.

**AR111C MAJOR ART I (COLLEGE PREP) 9-10-11-12 1 Credit**

Student's who expect to prepare for an art career, or have special ability and are highly motivated, may elect this course. Development of skills and techniques are emphasized as the student works on units of drawing, painting, printmaking, and three-dimensional projects.

PREREQUISITE: Approval of art teacher

**AR221H MAJOR ART II (HONORS) 10-11-12 1 Credit**

Students in Major Art II will expand their exploration of fundamental visual art principles and concepts. Coursework emphasizes a strong drawing foundation and includes concentrations in acrylic and oil painting, sculpting on varied materials (wood, foam, plaster, etc.), and two and three dimensional design. Additional media used in the course includes inks, watercolor, gouache, mylar, dyes, and much more. Students in Major Art II will develop advanced mat cutting skills, create exhibits of student works, and maintain a working portfolio.

PREREQUISITE: Major Art I, recommendation of teacher

**AR301H MAJOR ART III (HONORS) 11-12 2 Credits**  
**AR901A STUDIO ART (A.P.) 11-12 2 Credits**

Major Art III and A.P. Studio Art students develop a portfolio in one of three areas: **Drawing/Painting, 2-D Design** (including Photography and Computer Art), or **3-D Design** (including Sculpture and Ceramics). The portfolio requirements are designed for students who are seriously interested in the practical experience of art.

**\*Major Art III and A.P. Studio Art meet at the same time during a double period, although A.P. Studio Art students submit a portfolio to The College Board for assessment in May.**

The instructional goals for Major Art III and A.P. Studio Art program are as follows:

- Encourage creative and systematic investigation of formal and conceptual issues.
- Emphasize making art as an ongoing process that involves the student in informed and critical decision making.
- Help students develop technical skills and familiarize them with the functions of the visual elements.
- Encourage students to become independent thinkers who will contribute inventively and critically to their culture through the making of art.

**AR121C CRAFTS (COLLEGE PREP) 9-10-11-12 1 Credit**

In Crafts, the art that is created is both useful and decorative. Methods and materials may include weaving, beadwork, fiber art, metal tooling, leather, batik, tie-dye, jewelry, and wood working. An appreciation of world cultures is developed by exploring the art and history of others. All students can be successful in crafts and work at their own ability.

**AR224C CERAMICS FUNDAMENTALS (COLLEGE PREP) 9-10-11-12 .5 Credit**

Ceramics is an exciting form of self-expression that has the added benefit of creating functional ware that can be used every day. This course will cover the basic techniques of hand-building that are the foundation for all forms made of clay. Using coil, pinch, and slab, students will be challenged to create expressive, well crafted work that serve to communicate ideas and individual creativity. Students will foster self-confidence through working independently in a studio environment and developing their critical thinking skills. Students will have the opportunity to program and fire our computerized electric kiln, apply glazes, slips and washes and be introduced to historical and contemporary ceramic design. Students may keep the work they produce in class and take pride in knowing that with proper care, their artwork can be treasured for generations.

**AR234C      INTERMEDIATE & ADVANCED CERAMICS II (COLLEGE PREP)**  
**9-10-11-12    .5 Credit**

This course introduces additional ceramic concepts and techniques beyond the beginning levels. Students will get an opportunity to create highly crafted functional and decorative pieces such as mugs, cups, platters, vases and sculptural work, as well as an introduction to the potter's wheel. Students will have a chance to produce work in a series, learn about alternative kiln firing processes and production ceramics on the professional studio level. The chemistry of glazes and clay bodies will be introduced and students will have the opportunity to experiment with these mediums in order to further enhance their creative potential. Students may keep the work they produce and take pride in knowing that with proper care their artwork can be treasured for generations.

PREREQUISITE: Completion of Ceramics I or approval of art teacher

**AR024C      SCULPTURE I (COLLEGE PREP)**  
**9-10-11-12    .5 Credit**

This course emphasizes the additive method of creating three-dimensional forms using clay, papier mache, and new materials. The subtractive method (carving) using wood, plaster, styrofoam, and other materials will be explored.

**AR034C      SCULPTURE II (COLLEGE PREP)**  
**9-10-11-12    .5 Credit**

This course explores more varied and complex sculpture materials and techniques. Students may then elect to do advanced work in one or two materials.

PREREQUISITE: Completion of Sculpture I or approval of art teacher

**AR131C      CARTOONING (COLLEGE PREP)**  
**9-10-11-12    1 Credit**

All styles of cartooning are welcome in this course (superhero, funny animal, comic strip, anime, etc.). Emphasis will be placed on the development of original cartoon characters and the universes they inhabit. The fundamentals of general art techniques and contemporary cartooning are featured in this course, including: narrative art techniques (comic book style), comic strips, penciling, inking, lettering, gag panels, storyboards, caricature, claymation, coloring, cell animation, animation model-making, and stop-motion animation techniques. Students will have the opportunity to make short stop-motion animated films, illustrate original comic sequences, and contribute to Danbury High School's comic magazine *The Spirit*.

**AR064C      DRAWING SKILLS I (COLLEGE PREP)**  
**9-10-11-12    .5 Credit**

Drawing is a learnable skill and this course is designed for students who may never have taken an art elective but would like to learn how to draw. This class is especially useful for all students who might use drawing to illustrate school and community projects. Drawing media will include pencil, charcoal, pen, and ink.

**AR074C      DRAWING SKILLS II (COLLEGE PREP)      9-10-11-12      .5 Credit**

Drawing Skills II confirms and deepens the fundamentals that students have gained in Drawing Skills I. Units of study will include; observational drawing, the figure and portraiture, the use of ink, color and mixed media in drawing, experimentation of drawing styles, advanced perspective, shading and form, biological illustration, rendering, plus art history and vocabulary as it relates to drawing. Students will also experience an opportunity to develop their own personal drawing style by conceiving and developing a series of major drawings based on contemporary and/or historical issues of their choice.

**AR084C      PAINTING SKILLS (COLLEGE PREP)      9-10-11-12      .5 Credit**

Painting Skills is a course for people who want to explore the various kinds of painting techniques introduced in General or Major Art. Students will work with tempera, watercolors, and acrylics.

**AR114C      FILM PRODUCTION I (COLLEGE PREP)      9-10-11-12      .5 Credit**

Film Production seeks to take a student's love of the movies and put it into action. Students will study the technical and creative aspects of movie making to produce a series of short films. Group activity is emphasized as classmates learn the importance of collaboration during the process of planning, filming, and editing their projects. A selection of great works from throughout the history of film will be viewed and discussed.

**AR124C      FILM PRODUCTION II (COLLEGE PREP)      9-10-11-12      .5 Credit**

Film Production II builds on the skills and experiences students will have in Film Production I. The idea is not just to read about or watch films, but to get out of your seats and make them. During this second part of the course, students will further explore the creative aspects and technical challenges involved in filmmaking. Collaborative work remains essential as groups focus on putting together several short films. In addition, students will research post-high school opportunities such as higher education and jobs in the film industry.  
PREREQUISITE: Film Production I and approval of teacher

**AR141H      WEB DESIGN (HONORS)      9-10-11-12      1 Credit**

This course presents the Internet as a Design/Art medium and provides an in-depth introduction to graphics and interface design for the Web. Students will be exposed to the procedures, methods, techniques, and software used by professional website designers. Through a combination of demonstration, research, and hands-on projects, students will learn how to create and integrate digital images, artwork, animation, sound, and video into a working website. This course will also introduce students to the basics of information design. Working both independently and as part of a creative design team, students will learn to target a specific audience and create a website experience that is entertaining, motivating, and informative. An introduction to HTML for designers and artists will be part of this class. Students will also learn how to control and update websites.  
Note: This course may be used for computer literacy credit.

**AR174C      COMPUTER/DIGITAL ARTS I      9-10-11-12      .5 Credit**

Students will use various programs and technologies in order to create images and illustrations. Student art will use photo-manipulation, as well as working “from scratch.” Lessons will be inspired by the work of established artists from history. Students will be taught and expected to use a traditional creation process as it translates within the digital environment. They also will learn about and implement the elements and principles of design. Note: This course may be used for computer literacy credit.

**AR184C COMPUTER/DIGITAL ARTS II** **9-10-11-12** **.5 Credit**

A continuation of the description above at a more advanced level. Note: This course may be used for computer literacy credit.

**AR204C ANIMATION I** **9-10-11-12** **.5 Credit**

Students will create animated shorts starting with stop motion, moving into traditional 2-D animation, as well as, computer generated 2-D animation. The class will build up to 3-D computer generated animation. Students will go through a real life process to create their animations. They will plan and pitch ideas to the group. Individual and group projects will be created. The students will be expected write treatments, storyboards, screenplays and scripts. Note: This course may be used for computer literacy credit.

**AR214C ANIMATION II** **9-10-11-12** **.5 Credit**

A continuation of the description above at a more advanced level. Note: This course may be used for computer literacy credit.

**AR151C GAMING GRAPHICS/** **9-10-11-12** **2 Credits**  
**BU131C GAME CREATION**

This course will provide students with real life understanding and application of the process used to program and animate a functioning video game. Courses will be structured like a working video game design team. Students will be exposed to and work in the many different roles within the game creation process. These two courses will run simultaneously, bringing the roles together to create a finished game. **THIS IS A DOUBLE PERIOD CLASS.** Note: This course may be used for computer literacy credit.

**AR161C FASHION PHOTOGRAPHY** **9-10-11-12** **1 Credit**

Fashion Photography explores both editorial (magazine spread) and commercial (advertising) fashion photography in the classroom studio and on-location around the school. Students will learn to model, direct, conceptualize, and take beautiful fashion photographs. Different themes each week include Formalwear, Retro, Old Hollywood, Cover Girl, Shoes & Accessories, Natural Light, Portraits, and more. Students will have the opportunity to create new fashions with their wardrobes from home. The course explores camera techniques, lighting, styling, hair, make-up, & digital beauty retouching and will simulate professional on-set experiences. Historical and contemporary fashion and photographers will be discussed. Students may keep all hi-resolution photographs taken in the course.

## BUSINESS

Full Year Courses:		Half Year Courses:	
<b>BU211C</b>	<b>Accounting I</b>	<b>BU284H</b>	<b>Computer Science I – Intro to Programming (Honors)</b>
<b>BU311H</b>	<b>Accounting II (Honors)</b>	<b>BU294H</b>	<b>Computer Science II – Advanced Programming (Honors)</b>
<b>BU101C</b>	<b>Business Computer Tech.</b>	<b>BU204C</b>	<b>Computers I – Desktop Publishing</b>
<b>BU901A</b>	<b>Computer Science (A.P.)</b>	<b>BU214C</b>	<b>Computers II – Web Design</b>
<b>BU321H</b>	<b>Computer Web Master (Honors)</b>	<b>BU304H</b>	<b>E-Commerce/Entrepreneurship (Honors)</b>
<b>BU111C</b>	<b>Introduction to Marketing and Business</b>	<b>BU244C</b>	<b>Fashion Marketing</b>
<b>BU301C</b>	<b>Marketing I</b>	<b>BU234C</b>	<b>International Business</b>
<b>BU401H</b>	<b>Marketing II (Honors)</b>	<b>BU254C</b>	<b>Personal Finance</b>
<b>AR151C</b> <b>BU131C</b>	<b>Gaming Graphics/ Game Creation</b>	<b>BU224C</b>	<b>Sports and Entertainment Business</b>

**DANBURY HIGH SCHOOL  
BUSINESS CURRICULUM SEQUENCES**

<b>FINANCE</b>	<b>MARKETING</b>	<b>BUSINESS ADMINISTRATION</b>	<b>COMPUTER SCIENCE</b>	<b>INFORMATION PROCESSING</b>
ACCOUNTING I	INTRODUCTION TO BUSINESS AND MARKETING	ACCOUNTING I	A.P. COMPUTER SCIENCE	BUSINESS COMPUTER TECHNOLOGY
ACCOUNTING II	MARKETING I	ACCOUNTING II	BUSINESS COMPUTER TECHNOLOGY	
BUSINESS COMPUTER TECHNOLOGY	MARKETING II	BUSINESS COMPUTER TECHNOLOGY	COMPUTER SCIENCE I	
COMPUTERS I – DESKTOP PUBLISHING	FASHION MARKETING	COMPUTERS I – DESKTOP PUBLISHING	COMPUTER SCIENCE II	COMPUTER WEB MASTER
COMPUTERS II – WEB DESIGN		COMPUTERS II – WEB DESIGN	GAMING GRAPHICS/ GAME CREATION	COMPUTERS I – DESKTOP PUBLISHING
E-COMMERCE/ ENTREPRENEURSHIP		E-COMMERCE/ ENTREPRENEURSHIP		COMPUTERS II – WEB DESIGN
PERSONAL FINANCE		INTERNATIONAL BUSINESS		
		SPORTS AND ENTERTAINMENT BUSINESS		

Students who are interested in a business career, either directly upon graduation from high school or after college, should see their guidance counselor for more information about business course selections. Students can achieve a head start on their career choice by selecting those courses which will prepare them for that career.

## COLLEGE CAREER PATHWAYS COURSES

Called College Career Pathways, this program will allow high school students to experience college-level courses in certain areas while still completing their high school education. Through this program, Naugatuck Valley Community College, in cooperation with the Danbury Public Schools, will offer high school students the opportunity to earn up to 15 college credits in certain College Career Pathways Courses.

Students may select a broad range of business/technology/family and consumer science courses along with certain courses in science, English, and mathematics. Students have the option of earning up to 15 college credits while still in high school. Tuition for these courses will be paid by Naugatuck Valley Community College and all student fees will be waived.

### ENROLLING IN THE COLLEGE CAREER PATHWAYS COURSES

1. Students must enroll in the course or courses that are included in the articulation agreement between Naugatuck Valley Community College and the Danbury Public Schools. **The College Career Pathways Program is open only to juniors and seniors.**
2. Students must complete all of the necessary forms indicating participation in this program and the form must be signed by the student, teacher, parent, and guidance counselor.
3. The following acceptance criteria must be met before enrolling in the program:
  - a. The student must have completed two or more years of mathematics, including Algebra I and Geometry.
  - b. The student must have completed two or more years of English.
  - c. The student must have completed two or more years of Science.
  - d. The student must meet attendance requirements as set by Danbury High School.
  - e. Students must achieve a grade of at least a “C” on a competency test (Final Exam) and a grade of at least a “C” or better in the high school course to receive college credit for the course. Students may pass the high school course without receiving college credit if all of the criteria for college credit are not met.
  - f. Students are allowed to withdraw from the **College Career Pathways Program** at any time without penalties.

The following **College Career Pathway courses** are offered for college credit:

BU311H	Accounting II
BU101C	Business Computer Technology
FC341H	Early Childhood Workshop
BU401H	Marketing II
SC324C	The Human Body in Health & Disease

For more information about the College Career Pathways Program, please consult your guidance counselor.

**BU211C      ACCOUNTING I (COLLEGE PREP)      10-11-12      1 Credit**

Accounting I provides coverage of three types of business: proprietorship, partnership, and corporation. A sole proprietorship business is presented in a complete accounting cycle covering analyzing transactions, journalizing, posting, petty cash, financial statements, and adjusting and closing entries. Accounting concepts are introduced using different businesses. Students will learn to plan, record, analyze, and interpret financial information to develop a basic understanding of accounting information and its use in making economic decisions. Students will also use accounting software in solving accounting problems and to provide a comprehensive review of accounting concepts.

Note: This course may be used for computer literacy credit.

**BU311H      ACCOUNTING II (HONORS)      11-12      1 Credit**

Accounting II is an introduction to financial accounting with an emphasis on the interpretation of financial accounting information in making economic decisions. While the primary orientation in this course is the use of accounting information in business, it must be emphasized that government agencies, nonprofit organization, and individuals also use accounting information in much the same manner as it is used by business organizations. This course introduces the student to basic financial statements, the accounting cycle, reporting financial results, accounting for a merchandising business, financial assets, cost of goods sold, plant assets, and liabilities. Computer technology is used to solve problems.

Eligible juniors and seniors can enroll in this course and receive 3 college credits through the College Career Pathways Program at Naugatuck Valley Community College for successful completion.

PREREQUISITE: Accounting I or a senior student with a strong math background

Note: This course may be used for computer literacy credit.

**BU101C      BUSINESS COMPUTER TECHNOLOGY (COLLEGE PREP)      9-10-11-12      1 Credit**

Business Computer Technology provides mastery activities that are built around a business theme. The projects apply the skills developed in MicroSoft Word, Excel, Access, and PowerPoint along with other software packages. Students complete practical, realistic applications and create materials suitable for today's business world and personal/college use. The course is unique because it applies software skills through a project-based, applied learning process. Students will create career-related materials, newsletters, business correspondence, logos, business reports, financial statements, database files, web pages, and will conduct Internet research for a fictitious business. Team-work is stressed and employability skills are developed through the course. Eligible juniors and seniors can enroll in this course and receive 3 college credits through the College Career Pathways Program at Naugatuck Valley Community College for successful completion.

Note: This course may be used for computer literacy credit.

**BU304 H      E-COMMERCE/ENTREPRENEURSHIP (HONORS)**  
**9-10-11-12      .5 Credit**

This course will take students on a step-by-step journey through the entire process of creating an online business. It will introduce students to the work of e-commerce and develop academic skills, creative thinking, and problem solving skills through the completion of a comprehensive e-commerce business project. Students will set up, develop, and maintain a fully-functioning online store. This course is activity driven and promotes critical thinking, ethical decision making and cooperation, while addressing the importance of technology and the global and virtual marketplace.

**BU204C      COMPUTERS I – DESKTOP PUBLISHING (COLLEGE PREP)**  
**10-11-12      .5 Credit**

A practical, project-oriented approach to desktop publishing. This course will prepare students for careers in the business field with an emphasis on the creation and design of business documents, publications and promotional items.

PREREQUISITE: Basic Computer Knowledge and Keyboarding Skill

Note: This course may be used for computer literacy credit.

**BU214C      COMPUTERS II – WEB DESIGN                      (COLLEGE PREP)**  
**10-11-12      .5 Credit**

This course introduces students to how the internet works, while exploring basic layout, organization, structure, and publishing of websites. Animation and interactive forms will be incorporated within student created web pages. HTML Coding as well as visual web editors will be used to design effective web pages for business and personal use.

Note: This course may be used for computer literacy credit.

**BU284H      COMPUTER SCIENCE I – INTRO. TO PROGRAMMING (HONORS)**  
**10-11-12      .5 Credit**

Programming languages are the methods by which computers are told how to handle situations. In this introductory programming course, students will develop a fundamental understanding of computer programming. Students will write programs and follow through with the de-bugging of these programs in order to solve a problem. The Visual Basic & JAVA programming languages will be used throughout this course. Students will be introduced to this graphical interface programming language and the features of it.

PREREQUISITE: Algebra II or a higher level math

Note: This course may be used for computer literacy credit.

**BU294H      COMPUTER SCIENCE II – ADVANCED PROGRAMMING (HONORS)**  
**10-11-12      .5 Credit**

This course is a continuation of the programming concepts begun in Computer Science I. Java will be used to gain an understanding of the differences that exist between programming languages. Students will work independently on programming projects within their own areas of special interest. The class introduces the idea of Object Oriented Programming and will cover the Java Development Kit, classes, objects, attributes and behavior, statements and expressions, methods and casting, logic and loops, and creative Java applications. This course will help students prepare for the A.P. Computer Science Class.

PREREQUISITE: Algebra II or a higher level math

Note: This course may be used for computer literacy credit.

**BU321H      COMPUTER WEB MASTER (HONORS)      11-12      1 Credit**

Computer Web Master is a year-long project-based course designed to familiarize students with evaluating and creating web pages for the Internet. Students will learn to create web pages using programming languages (e.g. HTML, JAVA) or web page creation software as well as digital cameras, scanners, and photo-editing equipment. The course helps students master the art and skill of effectively working with clients and designing original websites. Collaborating in teams as project managers, developers, content editors, and technical coordinators, students apply the same tools and methods used by professionals. They acquire skills in all phases of web design, including project planning and production, graphic and user interface design, and developing client relationships. Students in this course will develop personal web pages as well as web pages for various clients.

**PREREQUISITE:** Computers II or Web Experience

Note: This course may be used for computer literacy credit.

**BU901A      COMPUTER SCIENCE (A.P.)      11-12      1 Credit**

Computer Science emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development and is meant to be the equivalent of a first-semester course in computer science. It also includes the study of data structures and abstraction. Students are required to take the A.P. test.

Note: This course may be used for computer literacy credit.

**AR151C/ GAMING GRAPHICS/GAME CREATION      9-10-11-12      2 Credits**  
**BU131C**

Video Game Programming & Video Game Animation. This course will provide students with real life understanding and application of the process used to program and animate a functioning video game. Courses will be structured like a working video game design team. Students will be exposed to and work in the many different roles within the game creation process. These two courses will run simultaneously, bringing the roles together to create a finished game. **THIS IS A DOUBLE PERIOD CLASS.** Note: This course may be used for computer literacy credit.

**BU224C      SPORTS & ENTERTAINMENT BUSINESS (COLLEGE PREP)      10-12      .5 Credit**

With the gross national sports product surpassing \$200 billion, the Sports & Entertainment Business industry continues to grow rapidly, requiring qualified professionals at every level to accommodate its growth. This course provides an introduction to Sports & Entertainment Business industry career fields with an overview of the history, impact, types, and trends of events and venues, the principles of event planning, the role of venues, and career options in each field.

**BU234C INTERNATIONAL BUSINESS (COLLEGE PREP)10-11-12 .5 Credit**

International business includes all of the business activities necessary for creating, shipping, and selling goods and services across national borders. International business is frequently referred to as foreign or world trade. Evidence of foreign trade is everywhere. Students will learn the basic foundations of business within the context of the global economy with strong links to history, geography, and cultures around the world. Topics such as cultural influences on business, government and political influences on business, structures of international business organizations, importing, exporting and trade relations, legal agreements around the work, and global marketing will be covered in this course.

**BU254C PERSONAL FINANCE (COLLEGE PREP) 9-10-11-12 .5 Credit**

Managing personal finances is an essential life skill in today's competitive job market. This course will emphasize how to save for the future, create a savings and spending plan (budget), maintain a checking and savings account, explore insurance options, and plan for finances after high school. Topics covered in Personal Finance include personal decision making; career planning; budgeting; investing; financing a car; using credit wisely; introduction to financial institutions; and taxes. This course will prepare students for a successful financial future.

Note: This course may be used for computer literacy credit.

## **MARKETING EDUCATION PROGRAM**

Marketing Education is a cooperative program conducted by the school and the business community in Danbury for students interested in entering the business world in the areas of distribution and marketing of goods and services. In the junior year, students begin with Marketing I and study subjects related to the field of merchandising, marketing, and management along with the additional subjects required for graduation. In the senior year, Marketing II is taken. The student receives supervised on-the-job training during afternoons, weekends, and vacation periods. Marketing Education students, who usually spend about 15 hours a week at their part time jobs, work in such places as department stores, food markets, clothing stores, and restaurants. Academic credit is given both for classroom work and for work at the student's job training station.

**BU111C INTRODUCTION TO MARKETING AND BUSINESS (COLLEGE PREP)  
9-10-11-12 1 Credit**

Introduction to Marketing and Business introduces students to the world of business with a slant toward the marketing field. Students will learn about the trends, regulations, risks, costs, competition, and technology that affect the free enterprise system. From creating an advertisement and designing a business logo to writing a business plan and making a presentation to potential investors, this course contains business challenges that bring the theory of business to life. Students will learn about marketing, business law, economics and personal finance, accounting, international business, management, and owning their own business.

Students in this course are eligible to join the Distributive Education Clubs of America (DECA) and participate in their program of activities.

Note: This course may be used for computer literacy credit.

**BU301C MARKETING I (COLLEGE PREP) 11-12 1 Credit**

Marketing I is the basic course of a two year program that provides an understanding of the business world and development of the student's knowledge and ability in the marketing field. Marketing I introduces the students to the processes and functions involved in transferring business products or services to a consumer. The course's main focus is on analyzing the marketing mix, their interrelationships, and how they are used in the marketing process.



## COMMUNICATION ARTS

**CA304C      SPEECH ARTS I (COLLEGE PREP)      11-12      .5 Credit**

Speech Arts I helps to create a foundation for students to work on communication and life skills. Theater games, improvisational activities, movement to music and group work are fundamental to this class that helps to prepare students for life beyond high school.

Students wishing to build upon their initial speech arts foundation and who want to further develop their communication skills may take this class more than one time for credit.

**CA314C      SPEECH ARTS II (COLLEGE PREP)      11-12      .5 Credit**

Speech Arts II builds upon Speech Arts I wherein students continue to work on communications skills. Theater games, improvisational activities and movement to music make way for creative scene work.

Students wishing to build upon their initial speech arts foundation and who want to further develop their communication/acting skills may take this class more than one time for credit, providing they have taken Speech Arts I.

PREREQUISITE: Speech Arts I

**CA324H      INTERMEDIATE SPEECH ARTS (HONORS)      11-12      .5 Credit**

Intermediate Speech Arts is for the student who wants to take his/her knowledge and communication skills to the next level. These students will initiate and direct class activities and assignments in a leadership capacity.

Speech Arts may be taken concurrently with Acting only with instructor's permission.

**CA301H      ACTING I (HONORS)      11-12      1 Credit**

This class is a workshop for students who are highly motivated to perform. It includes trust activities, improvisation, monologue, dialogue, and scene work. Students must be capable of memorizing and performing monologues, dialogues and scenes.

PREREQUISITE: Instructor approval

**CA401H      ACTING II (HONORS)      12      1 Credit**

Acting II continues to engage students in dramatic activities that include improvisation, monologue, dialogue, and scene work. Students will have opportunities to perform publicly.

PREREQUISITE: Instructor approval

# ENGLISH

Full Year Courses:		Half Year Courses:	
EN941A	AP English Language/ WCSU	EN334C	Classical Mythology
EN401H	English 4 (Honors)	EN344C	Creative Writing I
EN401C	English 4	EN354C	Creative Writing II
EN931A	AP English Literature	EN364C	Mystery & Suspense
EN321H	American Studies (Honors)	EN394C	Visual Literature
EN321C	American Studies	EN384H	Poetry (Honors)
EN301H	English 3 (Honors)	EN374C	Harlem Renaissance
EN301C	English 3	EN414H	Shakespeare-His Life & Works
EN201H	English 2 (Honors)		
EN201C	English 2		
EN191C	English 1		
EN191H	English 1 (Honors)		
EN111C	Reading Apprenticeship		
EN211C	Transitional English/Reading		
EN291H	Advanced Journalism (Honors)		
EN281H	Journalism I (Honors)		

## All English classes at Danbury High School require a summer reading activity.

All English classes, regardless of level and grade, require a summer reading activity. Please be sure to read the class descriptions below and then refer to the online summer descriptions. While oftentimes the college prep reading assignment is one book, the honors assignment has other sections to it. All the elective courses and AP courses also have summer reading assignments. If you are unsure of the assignment, please be sure to check the Danbury High School Website, or contact a building administrator.

**DANBURY HIGH SCHOOL  
GRADES 9 – 12 ENGLISH PROGRAM**

<b>9<sup>TH</sup> GRADE</b>	<b>10<sup>TH</sup> GRADE</b>	<b>11<sup>TH</sup> GRADE</b>	<b>12<sup>TH</sup> GRADE</b>
English I	English II	A.P. English Literature	A.P. English Language/WCSU
Honors English I	Honors English II	Honors English III	Honors English IV
Reading Apprenticeship		English III	English IV
<b>10-12<sup>th</sup> GRADE ELECTIVES</b>			
Harlem Renaissance	Mystery and Suspense	Poetry (Honors)	Shakespeare (Honors)
Visual Literature	Creative Writing	Classical Mythology	Journalism I (Honors)
Advanced Journalism (Honors)			

**EN191C                      ENGLISH 1                      9                      1 Credit**

The freshman English class is a preliminary survey of general English terms and skills. Students in this course will further develop the foundational skills in reading and writing as a continuation of those introduced in the previous grade. Writing opportunities will address the constructs of process writing, and students will be guided through peer-conferencing and peer-editing on a regular basis to enhance their writing and foster the necessary relationships found in a writing community. Throughout the year, thematic units ask students to look at literature and how it relates to them and the world around them. Academic growth within these units will be measured through various performance-based and writing assessments. Students will also have a guaranteed portfolio experience, providing them the opportunity to look back at these assessments and reflect on how their writing has improved throughout the year.

*In addition, summer reading and a graded assignment related to that reading are a course requirement. Summer reading work is due when students come to school in the fall. Assignments will be given out in current eighth grade classes, as well as being posted on the DHS website.*

**EN191H                      ENGLISH 1 (HONORS)                      9                      1 Credit**

The Honors program offers a challenging reading and writing program that encompasses the core curriculum and offers enrichment beyond the foundational skills. As such, the course demands extensive time and labor commitments outside of the classroom. The honors freshman English student will demonstrate analytical skills through sophisticated and substantive verbal and written responses to literature. Students will learn to form, support, and articulate critical responses to a variety of text and media genres.

Like the core curriculum program, the Honors program has a guaranteed portfolio experience that offers students an opportunity to reflect on their learning through the year, but also requires the students to revisit and revise one piece of showcase writing.

*In addition, two summer readings and two graded assignments related to those pieces are required and due when students come to school in the fall. Assignments will be given out in current eighth grade classes, as well as being posted on the DHS website.*

**EN211C                      TRANSITIONAL ENGLISH (COLLEGE PREP)                      9-12                      2 Credits**

This double period English team-taught course incorporates the skills included in the English II curriculum with those reading skills necessary for comprehension and interpretation of the required course material and subject matter. This double period class is open to students who have successfully completed the ELL program to assure a smooth transition in their second language acquisition progression. In cases in which the student successfully completes the Transitional course earlier than Grade 12, subsequent English courses must be taken.

The sophomore English class is a second step in a four-year program that builds upon the foundational skills laid in the freshman year. Students will continue to develop the fundamental skills of communication with a focus on literary analysis, vocabulary development and presentation skills. The specific aims of the course are to help the student gain a greater facility in written and oral expression, as well as the continued development of reading comprehension.

Throughout the year, students will participate in thematic units that ask the students to look at literature, and how it relates to themselves and the world around them. Students will have opportunities to express their understanding of material through a variety of different writing assignments.

In addition, students will have a guaranteed portfolio experience, providing opportunities to look back and reflect on how their writing has improved throughout the year.

***Summer reading and a graded assignment related to that reading, are a course requirement. Students are expected to have this completed to turn in at the start of the school year. Assignments will be given out in current English I courses, as well as being posted on the DHS website.***

PREREQUISITE: Successful completion of English I or concurrent enrollment

The honors sophomore English student will be expected to look at texts with a more astute eye and to write with much more elaboration. More importantly, the honors student must be self-motivated and willing to complete both reading and writing tasks outside of class. Honors selected texts will be more challenging on a variety of levels and will require additional writing assignments, and deeper analysis of literary elements and meaning. Students are expected to meet challenges with little support in the foundational skill areas. This will require more effort to meet the expectations of the course throughout the year.

The students will write more in the honors setting and this writing will demonstrate a stronger and more esoteric understanding of the power of words and language. Students in an honors class are expected to go above and beyond what is expected from the college prep curriculum.

Like the core curriculum program, the Honors program has a guaranteed portfolio experience that offers students an opportunity to reflect on their learning through the year, but also requires the students to revisit and revise one piece of showcase writing.

***Summer reading and a graded assignment related to that reading, are a course requirement. Students are expected to have this completed to turn in at the start of the school year. Assignments will be given out in current English I courses, as well as being posted on the DHS website.***

PREREQUISITE: Successful completion of English I or concurrent enrollment

Junior English is the third step of a four-year program in the development of communication skills that focus on literary analysis, vocabulary development and oral presentation. Specific aims are facilitation of written and oral expression, continued development of reading comprehension and cultivation of deeper levels of understanding.

Students will participate in thematic units that explore literature and question its relationship to their world. English III develops the American character through examination and analysis of the American Dream. It examines Americans' search for meaning across time periods and distinguishes among voices in American society. In also, it explores the art of persuasion through the use of rhetorical devices and persuasive appeals to develop reading, writing and critical thinking abilities. A guaranteed portfolio experience will provide opportunity for reflection and writing improvement.

In addition, students will have a guaranteed portfolio experience, providing opportunities to look back and reflect on how their writing has improved throughout the year.

***Summer reading and a graded assignment related to that reading, are a course requirement. Students are expected to have this completed to turn in at the start of the school year. Assignments will be given out in current English II courses, as well as being posted on the DHS website.***

PREREQUISITE: Successful completion of English II or concurrent enrollment

Junior Honors English students examine texts critically and write elaborately. Tasks in reading and writing are independent and demand self-motivation and adherence to task completion in a timely manner. Students are expected to meet challenges with little support in the foundational skill areas and to analyze literature from multiple perspectives.

A rigorous writing schedule in the honors setting will demonstrate an understanding of the power of language. In addition to the writing portfolio, honors students will revise their weakest writing sample based on what they have learned throughout the school year.

Like the core curriculum program, the Honors program has a guaranteed portfolio experience that offers students an opportunity to reflect on their learning through the year, but also requires the students to revisit and revise one piece of showcase writing.

***Summer reading and a graded assignment related to that reading, are a course requirement. Students are expected to have this completed to turn in at the start of the school year. Assignments will be given out in current English II courses, as well as being posted on the DHS website.***

PREREQUISITE: Successful completion of English II or concurrent enrollment

<b>EN321C</b>	<b>AMERICAN STUDIES</b>	<b>(COLLEGE PREP)</b>	<b>11</b>	<b>1 Credit</b>
<b>EN321H</b>	<b>AMERICAN STUDIES</b>	<b>(HONORS)</b>	<b>11</b>	<b>1 Credit</b>

American Studies is a course that integrates American literature and history to examine the development of the American character. Students will study the beliefs, words and deeds of the American people to analyze the patterns that underlie and shape this nation.

Meets 10 periods a week. Student must enroll in American Studies and American Studies Social Studies (SS301C/SS301H).

*Summer reading and a graded assignment related to that reading, are a course requirement. Students are expected to have this completed to turn in at the start of the school year. Assignments will be given out in current English I, II and III courses, as well as being posted on the DHS website.*

PREREQUISITE: Successful completion of English II and Modern World Studies

<b>EN401C</b>	<b>ENGLISH 4 (COLLEGE PREP)</b>	<b>12</b>	<b>1 Credit</b>
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The senior English course develops students as more sophisticated readers and writers in preparation for a post-high school experience. Students will compile real-world documents that set them up for success in their professional and academic futures. Through the exploration of literature, students will examine the various literary techniques authors use to make their writing more interesting and effective to the reader. What is more, students will find direct connections between the author's writing and their own life experiences. Students will examine how different types of writing affect our lives, what makes a text timeless, how authors use satire, and how different perspectives inform people in various ways. Much of the discussion that takes place in class comes from the student's ability to analyze the literature and make meaningful connections to it. Students will work to elevate their own written pieces through the development of personal voice and through the understanding of the connection writers make between audience and purpose.

In addition, students will have a guaranteed portfolio experience, providing opportunities to look back and reflect on how their writing has improved throughout the year.

*Summer reading and a graded assignment related to that reading, are a course requirement. Students are expected to have this completed to turn in at the start of the school year. Assignments will be given out in current English III courses, as well as being posted on the DHS website.*

PREREQUISITE: Successful completion of English III or concurrent enrollment

In addition to the core curriculum, honors students will be challenged to think, write, and read at a more complex level. Each quarter, honors students will complete independent reading choices, multi-media presentations, and more in-depth analyses of the texts we read. In addition, students will work to master their understanding of literary devices through application, development of high-level vocabulary, and foster creativity through mirroring the organizational structures and language techniques made by writers we study in class. The expectation for honors students is to take a genuine interest in honing their thinking, writing, and reading skills in order to maximize their potential for the future.

Like the core curriculum program, the Honors program has a guaranteed portfolio experience that offers students an opportunity to reflect on their learning through the year, but also requires the students to revisit and revise one piece of showcase writing.

***Summer reading and a graded assignment related to that reading, are a course requirement. Students are expected to have this completed to turn in at the start of the school year. Assignments will be given out in current English III courses, as well as being posted on the DHS website.***

PREREQUISITE: Successful completion of English III or concurrent enrollment

The AP English Language and Composition/WCSU course is intended to provide students at Danbury High School with one comprehensive college English experience. The students will develop an understanding of themselves as readers, writers, and thinkers through exploring a variety of texts. This course will engage students in the work of academic inquiry through the interpretation of difficult texts, participation in the issues and arguments that animate the texts, and reflection on the significance for academic and general culture and for themselves of the critical work of reading and writing. Students will be asked to generate their own ideas and interpretations of the materials at issue, and to develop logical, cogent and creative arguments defending their positions. Students are required to take the AP English Language test. Additionally, students seeking college credit from Western Connecticut State University must register with the University and pay a \$100 registration fee, which is payable directly to the University. This course will complete the freshman English requirement at Western Connecticut State, and students should check other colleges or universities regarding the awarding of credit for this course. This course is intended only for grade 12 students. There is an opportunity for an additional 3 college credits in writing if the student passes the AP exam. Students should contact the university directly to apply for that credit.

***Summer assignments will be issued before the conclusion of the school year. Assignments will be posted on the DHS website.***

PREREQUISITE: Successful completion of English III or AP English Literature

**EN931A      AP ENGLISH LITERATURE      11      1 Credit**

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Students are required to take the A.P. test.

*Summer assignments will be issued before the conclusion of the school year. Assignments will be posted on the DHS website.*

PREREQUISITE: Successful completion of English II

**EN334C      CLASSICAL MYTHOLOGY (COLLEGE PREP)      11-12      .5 Credit**

In this course the student will be introduced to Greek and Roman mythology and will become acquainted with the commonplace facts and fables that serve as the basis of much of the great literature of Western civilization. The first part will deal solely with an intense investigation of the pantheon of gods; the second part will include reading from major works of classical authors in translation.

**EN344C      CREATIVE WRITING I (COLLEGE PREP)      11-12      .5 Credit**

This course attempts to develop the basic writing ability of the student in all areas rather than primarily in exposition. The approaches used emphasize effectiveness of communication through extensive writing.

**EN354C      CREATIVE WRITING II (COLLEGE PREP)      11-12      .5 Credit**

Students intent on continuing to develop skills in creative writing will be given the opportunity to explore, with teacher guidance and group criticism, forms of poetry, short stories and plays. The course will stress manuscript submission to appropriate writing markets and will emphasize polishing of creative drafts.

PREREQUISITE: Creative Writing I and/or a portfolio of writing acceptable to the instructor

**EN281H      JOURNALISM I (HONORS)      10-11-12      1 Credit**

Journalism includes instruction and practice in reporting and writing (news, sports, features and opinion), advertising sales, photography, layout and design. The course will also examine concepts such as freedom of the press, ethics, and the role of media in a free society. Class members will contribute to the writing and production of the award-winning student newspaper, *The Hatters Herald*. As a Honors course, strong writing skills are required. Some after school commitment is involved in this course.

**EN291H      ADVANCED JOURNALISM (HONORS)      11-12      1 Credit**

Through Advanced Journalism, students serve as leaders of the award-winning student newspaper, *The Hatters' Herald*. They will learn to research and write in-depth stories while serving as mentors to beginning Journalism students. Advanced students may also apply to work at *The News-Times* as interns. After school commitment is involved in this course.

PREREQUISITE: Journalism

**EN394C VISUAL LITERATURE (COLLEGE PREP) 11-12 .5 Credit**

Visual Literature is a one semester course (offered fall and spring) and may be taken only once. Students will study the importance of film as a form of literature and for its role in society. The course uses film of different genres/eras as a major teaching tool to discuss literacy devices, to analyze and form opinions, and to develop critical viewing and writing skills. Assessments (discussions, papers, presentations) reflect the belief that interaction with a visual text should be on the literal, reflective, critical and evaluative level. Journals and a research paper are an important part of the course.

**EN364C MYSTERY AND SUSPENSE (COLLEGE PREP) 11-12 .5 Credit**

The genres of mystery and suspense are taught through classic and modern examples of short stories, plays, films, and novels. Students will be writing critical response papers, character analysis papers, and descriptive pieces. Students will read mystery novels of their own selection to supplement what is studied in class. At semester's close, students will write their own mystery.

**EN374C HARLEM RENAISSANCE (COLLEGE PREP) 11-12 .5 Credit**

This course involves an exploration of the literary, musical and artistic genre of The Great Migration to our major Northern cities. The course celebrates achievements of African Americans who reclaimed their past and enjoyed a resurgence of their creative exploits in all walks of American life. Students will choose projects that will take them into varied disciplines to share with one another their discoveries from the Renaissance legacy and the connections they make to their current world. Opportunities will include theater, visits to relevant historical sites, guest speakers, art, and music lessons. Activities include reading/writing from models, viewing, enacting, interviewing/reporting, publishing/recording, research, and crafting for charity causes connected to the history.

**EN384H POETRY (HONORS) 11-12 .5 Credit**

This course will include a study of poetry's history, poetic traditions, its development over time, and cultural, ethnic, national, and minority-specific contributions. As part of the course, students will imitate specific traditions and forms, generate original poetry, and attempt to publish original works. Students will be involved in the reading, analysis, writing, and critiquing of published and student-generated poetry.

**EN414H SHAKESPEARE – HIS LIFE AND WORKS (HONORS) 12 .5 Credit**

This course will explore the writings, life, and times of William Shakespeare. Students will study selected plays and sonnets of the bard and the role he played in the development of thought on the world stage. Writing, thinking, and vocabulary skills will be emphasized within the context of his works.

Students who take this course will participate in a literacy program called Reading Apprenticeship, designed to increase the skills of reading in all academic areas. Reading Apprenticeship involves four interacting dimensions of classroom life that support reading development:

- **Social:** The social dimension draws on students' interests in peer interaction as well as larger social, political, economic, and cultural issues. Reading Apprenticeship creates a safe environment for students to share their confusion and difficulties with texts, and to recognize their diverse perspectives and knowledge.
- **Personal:** This dimension draws on strategic skills used by students in out-of-school settings; their interest in exploring new aspects of their own identities and self-awareness as readers; and their purposes for reading and goals for reading improvement.
- **Cognitive:** The cognitive dimension involves developing readers' mental processes, including their repertoire of specific comprehension and problem-solving strategies. The work of generating cognitive strategies that support reading comprehension is carried out through classroom inquiry.
- **Knowledge-Building:** This dimension includes identifying and expanding the knowledge readers bring to a text and further develop through personal and social interaction with that text, including knowledge about word construction, vocabulary, text structure, genre, language, topics, and content embedded in the text.

Placement into this course will be determined by administrative evaluation of CMT reading scores, district benchmarks & teacher recommendations. This is not a remedial course, but rather, an additional opportunity for students to strengthen academic reading skills.

**ESL/BILINGUAL**

<b>Full Year Courses:</b>		<b>Half-Year Course</b>	
<b>MA131C</b>	<b>Algebra I (Bilingual Portuguese)</b>	<b>ES274C</b>	<b>Language, Culture &amp; Civics for English Learners</b>
<b>MA141C</b>	<b>Algebra I (Bilingual Spanish)</b>		
<b>SC 131C</b>	<b>Biology (Bilingual Portuguese)</b>		
<b>SC 141C</b>	<b>Biology (Bilingual Spanish)</b>		
<b>ES211C</b> <b>ES221C</b>	<b>English as a Second Language I</b>		
<b>ES231C</b> <b>ES241C</b>	<b>English as a Second Language II</b>		
<b>ES251C</b> <b>ES261C</b>	<b>English as a Second Language III</b>		
<b>MC241C</b>	<b>Geometry I (Bilingual Spanish)</b>		
<b>SS211C</b>	<b>Modern World Studies (Bilingual Portuguese)</b>		
<b>SS221C</b>	<b>Modern World Studies (Bilingual Spanish)</b>		
<b>MA021C</b>	<b>Pre-Algebra (Bilingual Portuguese)</b>		
<b>MA011C</b>	<b>Pre-Algebra (Bilingual Spanish)</b>		
<b>SS321C</b>	<b>U.S. History (Bilingual Spanish)</b>		
<b>SS171C</b>	<b>World Studies (Bilingual Portuguese)</b>		
<b>SS181C</b>	<b>World Studies (Bilingual Spanish)</b>		

**LAS (LANGUAGE ASSESSMENT SYSTEM) PLACEMENT GUIDELINES  
FOR ESL 1, 2, 3**

ESL I: Overall Scaled Score 350 - 510

ESL I a: 350 - 471

ESL I b: 472 - 509

ESL II: Overall Scaled Score 511 - 550

ESL III: Overall Scaled Score 551 - 675

**ES211C ENGLISH AS A SECOND LANGUAGE I (COLLEGE PREP)  
9-10-11-12 1 Credit in English**

**ES221C ENGLISH AS A SECOND LANGUAGE 1 (COLLEGE PREP)**  
**9-10-11-12 1 Credit in Electives**

This is a basic course in developing English skills for English language learners (ELL's). The emphasis is on securing a working knowledge of listening, speaking, reading, writing, and American culture. Meets 10 periods a week. **STUDENTS MUST REGISTER FOR BOTH COURSES.**

**ES231C ENGLISH AS A SECOND LANGUAGE II (COLLEGE PREP)**  
**9-10-11-12 1 Credit in English**

**ES241C ENGLISH AS A SECOND LANGUAGE II (COLLEGE PREP)**  
**9-10-11-12 1 Credit in Electives**

English language learners (ELL's) who have developed some facility in English will enroll in this advanced beginner/intermediate course. ESL II concentrates on an intensive study of the structure of the English language and on composition. Students in this course will receive intensive instruction in beginning reading in English. Meets 10 periods a week **STUDENTS MUST REGISTER FOR BOTH COURSES.**

**ES251C ENGLISH AS A SECOND LANGUAGE III (COLLEGE PREP)**  
**9-10-11-12 1 Credit in English**

**ES261C ENGLISH AS A SECOND LANGUAGE III (COLLEGE PREP)**  
**9-10-11-12 1 Credit in Electives**

Through the ESL continuum, students who have developed considerable ability in the use of spoken and written English, but who are not yet ready to function in a conventional English class at an appropriate grade level, will enroll in this course. This ESL/Reading course is a double period class that emphasizes reading, writing, comprehension, and vocabulary building. Meets 10 periods a week. **STUDENTS MUST REGISTER FOR BOTH COURSES.**

After students successfully complete ESL III (EN253C and ES261C), they move into the English department and will be placed in Transitional English (EN213) or another English course as appropriate. (See page 33 for the course description).

**ES274C LANGUAGE, CULTURE & CIVICS FOR ENGLISH LEARNERS**  
**9-10-11-12 .5 Credit**

This course is required for students registering at DHS without foundational academic skills in their native language and/or a discontinuous educational background. Students in this class will receive support in literacy development that ranges from phoneme awareness and the formation of letters to the task of writing and reading words from a high frequency word list. In addition, students will receive instruction in civics and acculturation from school counselors and guest speakers. Must be taken with ES211C and ES221C.

**MA011C PRE-ALGEBRA BILINGUAL (SPANISH) (COLLEGE PREP)**  
**9-10-11-12 1 Credit**

This course, designed for Spanish-speaking students, offers a thorough review of arithmetic skills by application. In addition, the course includes an introduction to algebra, geometry, probability, and statistics. Having completed this course, students will be ready to take Bilingual Algebra I.

This course, designed for Spanish-speaking students, prepares students for success in college and in their careers and daily lives in the 21st century. The integrated sequence covers Algebra I and

Geometry. In addition, topics from logical reasoning, measurements, probability, statistics, discrete mathematics and functions are interwoven throughout the year.

**MA021C      PRE-ALGEBRA BILINGUAL (PORTUGUESE) (COLLEGE PREP)**  
**9-10-11-12      1 Credit**

This course, designed for Portuguese-speaking students, offers a thorough review of arithmetic skills by application. In addition, the course includes an introduction to algebra, geometry, probability, and statistics. Having completed this course, students will be ready to take Bilingual Algebra I.

This course, designed for Portuguese-speaking students, prepares students for success in college and in their careers and daily lives in the 21st century. The integrated sequence covers Algebra I and Geometry. In addition, topics from logical reasoning, measurements, probability, statistics, discrete mathematics and functions are interwoven throughout the year.

**MA141C      ALGEBRA I BILINGUAL (SPANISH) (COLLEGE PREP)**  
**9-10-11-12      1 Credit**

**MA131C      ALGEBRA I BILINGUAL (PORTUGUESE) (COLLEGE PREP)**  
**9-10-11-12      1 Credit**

This course is the first in the 2-year integrated sequence for Spanish or Portuguese-speaking students.

**MC241C      GEOMETRY I BILINGUAL (SPANISH) (COLLEGE PREP)**  
**9-10-11-12      1 Credit**

This is the second in the two year sequence for Spanish-speaking students.

**SS221C      MODERN WORLD STUDIES BILINGUAL (SPANISH)**  
**(COLLEGE PREP)      10      1 Credit**

This course is designed for Spanish-speaking students. This course is a study of history and culture from the mid-18<sup>th</sup> Century to the present time. It includes a study of the major events, ideologies, and philosophies that have shaped recent development. The second half of this course will focus on major issues facing the contemporary world.

**SS181C      WORLD STUDIES BILINGUAL (SPANISH)**  
**(COLLEGE PREP)      10      1 Credit**

This course is designed to introduce Spanish-speaking students to various civilizations of the ancient past, the eras of the Middle Ages, the Renaissance, and the Reformation, and the history and culture of man from the mid-18th century to the present time. The contributions of civilizations to political, economic, religious, and social ideas, as well as the major events, ideologies and philosophies which have shaped man's recent development will be studied.

**SS171C      WORLD STUDIES BILINGUAL (PORTUGUESE) (COLLEGE PREP)**  
**9      1 Credit**



## FAMILY & CONSUMER SCIENCES

Full Year Courses:		Half Year Courses:	
<b>FC201C</b>	<b>Child Development</b>	<b>FC204C</b>	<b>Baking and Pastry Arts</b>
<b>FC101C</b>	<b>Clothing &amp; Textile Arts</b>	<b>FC104C</b>	<b>Birth Through Two</b>
<b>FC321C</b>	<b>Culinary Arts On-The-Job Training</b>	<b>FC214H</b>	<b>Child Psychology (Honors)</b>
<b>FC211C</b>	<b>Culinary Arts Training I</b>	<b>FC124C</b>	<b>Food and Nutrition</b>
<b>FC311H</b>	<b>Culinary Arts Training II (Honors)</b>	<b>FC134C</b>	<b>International Foods</b>
<b>FC341H</b>	<b>Early Childhood Workshop (Honors)</b>	<b>FC114C</b>	<b>Parenting</b>
<b>FC351C</b>	<b>Infant/Toddler Practicum</b>		
<b>FC361C</b>	<b>Nursing Assistant</b>		
<b>FC331C</b>	<b>Social Psychology</b>		
<b>FC371H</b>	<b>Health &amp; Bioscience (Honors)</b>		

**FAMILY AND CONSUMER SCIENCES  
ELECTIVE PROGRAM  
OCCUPATIONAL AND ACADEMIC COURSE SEQUENCES**

<b>CULINARY ARTS TRAINING</b>	<b>EARLY CHILDHOOD</b>	<b>HEALTH AND BIOSCIENCES ACADEMY</b>	<b>FAMILY AND CONSUMER SCIENCES PATHWAY</b>
<b>BAKERY AND PASTRY ARTS</b>	<b>BIRTH THROUGH TWO</b>	<b>CERTIFIED NURSING ASSISTANT</b>	<b>CLOTHING AND TEXTILES</b>
<b>CAT ON-THE-JOB TRAINING</b>	<b>CHILD DEVELOPMENT</b>	<b>EMERGENCY MEDICAL TECHNICIAN (EMT) (INDEPENDENT STUDY WITH DANBURY HOSPITAL)</b>	<b>SOCIAL PSYCHOLOGY</b>
<b>CULINARY ARTS I</b>	<b>CHILD PSYCHOLOGY</b>	<b>HBSA (SEE DESCRIPTION ON PAGES 10 &amp; 11)</b>	
<b>CULINARY ARTS II</b>	<b>EARLY CHILDHOOD WORKSHOP</b>	<b>MEDICAL ARTS CAREER PATHWAY PROGRAM (IN COLLABORATION WITH THE NORTHWEST AREA HEALTH EDUCATION COUNCIL)</b>	
<b>FOOD AND NUTRITION</b>	<b>INFANT TODDLER PRACTICUM</b>	<b>MEDICAL INTERNSHIP PROJECT (IN COLLABORATION WITH EDUCATION CONNECTION)</b>	
<b>INTERNATIONAL FOODS</b>	<b>PARENTING</b>	<b>SPORTS MEDICINE</b>	

**FC101C CLOTHING & TEXTILE ART (COLLEGE PREP)**

**9-10-11-12 1 Credit**

This course enables students to develop proficiency in clothing construction and to utilize knowledge of textiles in selection of fabric and ready made garments. Traditional and computerized sewing machines are used in class. An individualized approach will permit beginners to participate on an elementary level and more advanced students to select more complex projects.

**FC124C FOOD AND NUTRITION (COLLEGE PREP) 9-10-11-12 .5 Credit**

In this course, students will develop skills in planning, preparing, and serving nutritious meals. It includes the study of nutrition, management techniques, consumer decisions, and principles of food preparation.

**FC134C INTERNATIONAL FOODS (COLLEGE PREP)**

**9-10-11-12 .5 Credit**

This course helps students to become familiar with the cultures and cuisines of a variety of countries, regions, and ethnic groups. Units of instruction include regional foods, foreign foods, and food history.

PREREQUISITE: Food and Nutrition or Culinary Arts Training and approval of instructor

**FC104C BIRTH THROUGH TWO (COLLEGE PREP) 9-10-11-12 .5 Credit**

This course will examine the beginnings of childhood by learning about development from conception until age three.

Students will explore the topics of pregnancy and childbirth, characteristics of infants and toddlers, baby care, typical early childhood problems, and positive parenting techniques. Related topics such as adoption, hereditary diseases, and new childbearing techniques will also be covered. This course needs to be taken if a student is planning to register for the Infant Toddler Practicum.

**FC201C CHILD DEVELOPMENT (COLLEGE PREP) 10-11-12 1 Credit**

This course will study the physical, social, emotional, and intellectual development of children ages 3-5 years. Students will learn positive child care techniques and teaching techniques which will be demonstrated as they work with children in the Little Hatter's Nursery School at DHS during the second semester. Preschoolers from the community will attend the nursery school for approximately 12 weeks from March until June. High school students will have the opportunity to observe and interact with the children in the nursery setting. High school students (in groups of 3 or 4) will be assigned a day of teaching where they will prepare a typical lesson plan for preschoolers including songs, story time, games, art activities, and a healthy snack.

In addition to the nursery school experience, related topics include: creativity, childhood nutrition, safety, child abuse prevention, disability awareness, children's literature, and music enrichment. Students enrolling in this program must be mature enough to behave in a professional manner with the children and be capable of completing independent work. If further study is desired, students may enroll in one or more of the following: Birth through Two, Early Childhood Workshop, Infant Toddler Practicum, or UConn Individual and Family Development. This course will assist in preparation for acquiring a national Child Development Associate (CDA) credential from the National Association of Young Children's Council for Professional Recognition.

**FC214H CHILD PSYCHOLOGY (HONORS) 10-11-12 .5 Credit**

This course examines the typical patterns of development of children from birth to pre-adolescence in relationship to historical and contemporary theories of development. Study includes Piaget, Vygotsky, Erickson, Maslow, Freud, Havinghurst, and others. Special topics include: brain development, heredity and environment influences, cognitive and language development, learning styles, multiple intelligences, and emotional/ behavioral disorders of childhood. This course will assist in preparation for acquiring a National Child Development Associate (CDA) credential from the National Association of Education of Young Children, Council for Professional Recognition.

**FC114C PARENTING (COLLEGE PREP) 9-10-11-12 .5 Credit**

This course is offered to pregnant and parenting teens. The topics covered will include goal setting, child care skills, positive parenting techniques, and children's behavior patterns. The mission is to promote personal growth, educational competence, and economic self-sufficiency as socially responsible members of society. This course enables students to gain support from others in the same situation. This course may be taken over a two year period with a maximum of 1 credit per year.

**FC331C SOCIAL PSYCHOLOGY (COLLEGE PREP) 11-12 1 Credit**

This course helps students understand themselves better through the study of topics personality formation, emotions, basic physical and psychological needs, and mental mechanisms. This knowledge is then applied to a variety of behaviors including male/female relationships, alcohol and drug abuse, mental disorders, pregnancy, peer leadership, sexually transmitted infections, and child abuse.

Note: This course fulfills the Health education requirement for graduation.

**FC341H EARLY CHILDHOOD WORKSHOP (HONORS) 11-12 2 Credits**

The Early Childhood Workshop prepares students for employment, or serves as a pre-professional experience for the college bound student. Basic techniques of working with young children are acquired through classroom work and on the job training in Head Start programs, day care programs, nursery school, and observations in elementary school classrooms. This class meets two periods a day. This course will assist in preparation for acquiring a national Child Development Associate (CDA) credential from the National Association of Education of Young Children, Council for Professional Recognition.

Eligible juniors and seniors can enroll in this course and receive 3 college credits through the College Career Pathways Program at Naugatuck Valley Community College for successful completion. THIS CLASS MEETS FOR A DOUBLE PERIOD.

PREREQUISITE: Child Development or approval of the instructor

**FC204C BAKING AND PASTRY ARTS (COLLEGE PREP) 10-11-12 .5 Credit**

This course provides specific skills in using quantitative baking formulas. The student will develop skills in making a variety of bread dough, pastries, and desserts. The students will also operate a bakery, gaining practical work experience.

PREREQUISITE: Foods and Nutrition, Culinary Arts Training I or Culinary Arts Training II (at least one), or approval of instructor



<b>FC371H</b>	<b>HEALTH &amp; BIOSCIENCE IA &amp; IB (HONORS)</b>	<b>11-12</b>	<b>1.4 Credits</b>
<b>SC311H</b>	<b>ANATOMY &amp; PHYSIOLOGY A &amp; B (HONORS)</b>	<b>11-12</b>	<b>1.4 Credits</b>

The academy is a 3 period year long program that encompasses anatomy, physiology, pathophysiology and health care along with hands on clinical placements in areas of interest or Nursing Assistant Training at Danbury Hospital. The course is taught in the classroom, lab, and hospital setting. Ethics, legal considerations, medical and surgical asepsis, body mechanics, medical language skills, first aid, an introduction to medical facilities and careers within the field are some of the areas to be covered. Furthermore, the course will explore traditional medical diagnostics and treatments, as well as challenges posed by new technologies and alternative medicine. The course will prepare the student with knowledge of normal form and function of the human organ systems, with anatomical and physiological laboratory techniques, which may be applied outside the course; and with a working vocabulary of anatomical and physiological terms, which will allow further independent learning and application.

College Career Pathways credits are available. This course fulfills the Health requirement and includes the CNA option.

**PREREQUISITE:** B average in Science

## HEALTH EDUCATION

### **HE104C      HEALTH EDUCATION (COLLEGE PREP)      9-10-11-12      .5 Credit**

During this one semester graduation requirement course, students will: comprehend concepts related to health promotion and disease prevention; demonstrate the ability to access valid health information and health-promoting products and services; demonstrate the ability to practice health-enhancing behaviors and reduce health-related risks; analyze the influence of culture, media, technology, and other factors on health; demonstrate the ability to use interpersonal communication skills to enhance health; demonstrate the ability to use goal setting and decision making skills to enhance health; and demonstrate the ability to advocate for personal, family, and community health. Specific topics include: nutrition, mental health, communicable diseases (HIV/AIDS is a mandated piece of this section), ATOD (alcohol, tobacco, and other drugs as mandated by state and federal law), family life, and safety and First Aid/CPR. Students are strongly encouraged to discuss the course content and work with their families for the duration of this course. Social Psychology, Peer Leadership, and Nursing Assistant courses can also fulfill the health requirement.

### **HE131H      PEER LEADERSHIP (HONORS)      12      1 Credit**

Students interested in Peer Leadership must apply in the spring of their junior year. Students will participate in a training course in group dynamics and leadership techniques. Senior peer leaders will conduct weekly discussion groups with ninth and tenth grade students about social and academic pressures, relationships with peers, parents, and faculty, and problems associated with drugs, sexuality, and alcohol. Peer Leadership also requires 20 hours per semester of community service as well as a community change project that addresses filling a need in the community and employing the leadership skills necessary to make the change. Peer leadership is a selective elective full-year course for students interested in leadership positions in the future. Students go through an application process that includes teacher recommendations, essay writing, and interviews. Selection is made by a committee consisting of faculty and other peer leaders.

Note: This course fulfills the Health education requirement for graduation.

# MATHEMATICS

## Full Year Courses:

<b>MA931A</b>	<b>A.P. Statistics (A.P.)</b>
<b>MA101C</b>	<b>Algebra I</b>
<b>MA311C</b>	<b>Algebra II</b>
<b>MA311H</b>	<b>Algebra II (Honors)</b>
<b>MA911A</b>	<b>Calculus AB (A.P.)</b>
<b>MA921A</b>	<b>Calculus BC (A.P.)</b>
<b>MA211C</b>	<b>Geometry</b>
<b>MA211H</b>	<b>Geometry (Honors)</b>
<b>MA111C</b>	<b>Math Lab</b>
<b>MA001C</b>	<b>Pre Algebra</b>
<b>MA321C</b>	<b>Pre-Calculus</b>
<b>MA321H</b>	<b>Pre-Calculus (Honors)</b>
<b>MA421C</b>	<b>Statistics and Data Gathering</b>
<b>MA091C</b>	<b>Pre-Algebra Grade 9</b>
<b>MA191C</b>	<b>Algebra I Grade 9</b>
<b>MA291C</b>	<b>Geometry Grade 9 College Prep</b>
<b>MA291H</b>	<b>Geometry Grade 9 Honors</b>
<b>MA391H</b>	<b>Algebra II Grade 9 Honors</b>

**DANBURY HIGH SCHOOL  
GRADES 9-12 MATHEMATICS PROGRAM**

LEVEL	GRADE			
	9 <sup>TH</sup> GRADE	10 <sup>TH</sup> GRADE	11 <sup>TH</sup> GRADE	12 <sup>TH</sup> GRADE
ADVANCED PLACEMENT		A.P. STATISTICS	A.P. CALCULUS AB A.P. CALCULUS BC A.P. STATISTICS	A.P. CALCULUS AB A.P. CALCULUS BC A.P. STATISTICS
HONORS	ALGEBRA II GEOMETRY	ALGEBRA II GEOMETRY PRE-CALCULUS	ALGEBRA II PRE-CALCULUS	A.P. CALCULUS AB A.P. STATISTICS PRE-CALCULUS STATS AND DATA
COLLEGE PREP	ALGEBRA I MATH LAB PRE-ALGEBRA	ALGEBRA I ALGEBRA II GEOMETRY PRE-ALGEBRA STATS AND DATA	ALGEBRA I ALGEBRA II GEOMETRY STATS AND DATA	A.P. STATISTICS ALGEBRA II GEOMETRY PRE-CALCULUS STATS AND DATA

**MA091C      PRE-ALGEBRA (COLLEGE PREP)      9      1 Credit**

This Pre-Algebra course emphasizes the skills necessary to manipulate numbers, solve equations, and understand the general principles that allow mathematical processes. Students will explore topics in Number Theory, Scientific Notation, Linear Functions, Pythagorean Theorem, Transformations, and Bi-variant data. Practical application through the incorporation of word problems is required in this course. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**MA001C      PRE-ALGEBRA (COLLEGE PREP)      10      1 Credit**

This Pre-Algebra course emphasizes the skills necessary to manipulate numbers, solve equations, and understand the general principles that allow mathematical processes. Students will explore topics in Number Theory, Scientific Notation, Linear Functions, Pythagorean Theorem, Transformations, and Bi-variant data. Practical application through the incorporation of word problems is required in this course. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**MA191C ALGEBRA I (COLLEGE PREP) 9 1 Credit**

This Algebra I course emphasizes the study of functions with tables, graphs, verbal rules and symbolic rules. Students will explore topics in Systems of Linear Functions and Inequalities, Exponential Functions, Quadratic Functions, and Piece-Wise Functions. Practical application through the incorporation of word problems is required in this course. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

PREREQUISITE: Successful completion of Pre-Algebra.

**MA101C ALGEBRA I (COLLEGE PREP) 10-11 1 Credit**

This Algebra I course emphasizes the study of functions with tables, graphs, verbal rules and symbolic rules. Students will explore topics in Systems of Linear Functions and Inequalities, Exponential Functions, Quadratic Functions, and Piece-Wise Functions. Practical application through the incorporation of word problems is required in this course. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

PREREQUISITE: Successful completion of Pre-Algebra.

**MA291C GEOMETRY (COLLEGE PREP) 9 1 Credit**

This Geometry course emphasizes the study of congruence and similarity among classes of two and three dimensional geometric objects. Through the introduction of the point, line, plane, and space the students develop an understanding of theorems and postulates which form the foundation of geometry. Students will explore topics in Quadrilaterals, Triangles, Surface Area and Volume, Circles, Trigonometry, and topics on Probability. Practical application through the incorporation of word problems is required in this course. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

PREREQUISITE: Successful completion of Algebra I.

**MA291H GEOMETRY (HONORS) 9 1 Credit**

This Geometry Honors course includes extensions on the College Prep course of study. Students will explore topics in Quadrilaterals, Triangles, Surface Area and Volume, Circles, Trigonometry, and topics on Probability. Students will also include study on proofs, solids of revolution, and logic. Practical application through the incorporation of word problems is required in this course. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

PREREQUISITE: Successful completion of Algebra I.



**MA311H ALGEBRA II (HONORS)****10-11-12****1 Credit**

This course in intermediate algebra reviews the principles studied in Algebra I and further develops these ideas with more advanced material. Topics presented are polynomials and factoring, rational numbers, complex numbers, quadratic functions, exponential, logarithmic, rational and trigonometric functions. Relations and functions are thoroughly explored and used to unify the course. Graphing calculators are implemented in each unit to combine technology into the lessons and it is recommended that each student have one. This course is at a faster pace than the college prep and covers extensions on each unit of study. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**PREREQUISITE:** Successful completion of Geometry.

**MA421C STATISTICS AND DATA GATHERING (COLLEGE PREP)****10-11-12****1 Credit**

This course is a general-purpose introduction to the field of statistics. The content of the course is designed for students with a wide variety of vocational and educational interests. Topics will include: data gathering, frequency distributions, summarizing data, understanding scores, probability, sampling, and simulations. Classroom projects and computer activities will be utilized.

**PREREQUISITE:** Successful completion of Algebra II

**MA321C PRE-CALCULUS (COLLEGE PREP)****10-11-12****1 Credit**

Pre-calculus is an advanced form of algebra. The course is intended to prepare students for the study of calculus. The first semester includes graphs, polynomial and rational functions, and exponential and logarithmic functions. For the second semester students will focus on trigonometry. Topics include the unit circle, graphs, identities, and inverse functions. Assessment will be based on tests, quizzes, homework, and class work. There will be extensive use of the graphic calculator. It is highly recommended students have their own graphing calculator. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**PREREQUISITE:** Successful completion of Algebra II.

**MA321H PRE-CALCULUS (HONORS)****10-11-12****1 Credit**

Honors Pre-calculus is an accelerated form of Pre-Calculus. The course is intended to rigorously prepare students for the study of AP calculus. The first semester includes graphs, polynomial and rational functions, and exponential and logarithmic functions. For the second semester students will focus on trigonometry. Topics include the unit circle, graphs, identities, and inverse functions. Honors Pre-calculus includes additional topics not covered in College Prep. Assessment will be based on tests, quizzes, and homework, with a higher emphasis on tests. There will be extensive use of the graphic calculator. It is highly recommended students have their own graphing calculator. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**PREREQUISITE:** Successful completion of Algebra II.

**MA911A      CALCULUS AB (A.P.)****11-12****1 Credit**

A.P. AB Calculus is designed to teach students how to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal. They should understand the connections among these representations; understand the meaning of the derivative in terms of a rate of change and local linear approximation and they should be able to use derivatives to solve a variety of problems; understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change and should be able to use integrals to solve a variety of problems; understand the relationship between the derivative and the definite integral as expressed in both parts of the Fundamental Theorem of Calculus; communicate mathematics both orally and in well-written sentences and should be able to explain solutions to problems; model a written description of a physical situation with a function, a differential equation, or an integral; use technology to help solve problems, experiment, interpret results, and verify conclusions; determine the reasonableness of solutions, including sign, size, relative accuracy, and units of measurement; and develop an appreciation of calculus as a coherent body of knowledge and as a human accomplishment. Students are required to take the A.P. test. This course is comparable to college-level Calculus I. WCSU credit may be granted, but students must apply. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**PREREQUISITE:** Successful completion of Pre-Calculus

**MA921A      CALCULUS BC (A.P.)****11-12****1 Credit**

A.P. Calculus BC is an extension of A.P. Calculus AB rather than an enhancement; common topics require a similar depth of understanding. Both courses are intended to be challenging and demanding. The content of Calculus BC is designed to qualify the student for placement and credit in a course that is one course beyond that granted for Calculus AB. Students are required to take the A.P. test. This course is comparable to college-level Calculus I & II. WCSU credit may be granted, but students must apply. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**PREREQUISITE:** Successful completion of Honors Pre-Calculus

**MA931A      STATISTICS (A.P.)****11-12****1 Credit**

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 four broad conceptual themes: Exploring data by describing patterns and departures from patterns; sampling and experimentation by planning and conducting a study; anticipating patterns by exploring random phenomena using probability and simulation; and statistical inference by estimating population parameters and testing hypotheses. Students are required to take the A.P. test. Summer work is a requirement for this course. Packets will be distributed at the end of the school year and will be posted on the Danbury High School website. It will be handed in at the beginning of the school year and counted toward the student's grade.

**MA111C      MATH LAB (COLLEGE PREP)****9****1 Credit**

This is a course that is required for 9<sup>th</sup> grade students who have been identified as in need of math intervention based upon middle school performance (7<sup>th</sup> grade CMT Level 1 or 2, teacher recommendation). This elective course will provide support in math foundation to ensure that students have the foundational skills required to be successful in subsequent math courses.

# MUSIC

Full Year Courses:		Half Year Courses:	
<b>MU261C</b>	<b>Chamber Music &amp; Jazz</b>	<b>MU164C</b>	<b>Guitar</b>
<b>MU101C</b>	<b>Concert Choir</b>	<b>MU144C</b>	<b>Piano I</b>
<b>MU131H</b>	<b>Freshman Orchestra (Honors)</b>	<b>MU154C</b>	<b>Piano II</b>
<b>MU121H</b>	<b>Freshman Wind Ensemble (Honors)</b>		
<b>MU241H</b>	<b>Intermediate Piano (Honors)</b>		
<b>MU211H</b>	<b>Madrigal Singers (Honors)</b>		
<b>MU201C</b>	<b>Music Production Through Technology</b>		
<b>MU231H</b>	<b>Music Theory (Honors)</b>		
<b>MU911A</b>	<b>Music Theory (A.P.)</b>		
<b>MU161H</b>	<b>Percussion Ensemble (Honors)</b>		
<b>MU111C</b>	<b>Pop Choir</b>		
<b>MU251H</b>	<b>Symphonic Band (Honors)</b>		
<b>MU221H</b>	<b>Symphony Orchestra (Honors)</b>		

**MU101C CONCERT CHOIR (COLLEGE PREP) 9-10-11-12 1 Credit**

This course is open to all students who would like to sing. It is designed to further develop proper vocal technique. High quality choral works will be emphasized. Students will perform various musical styles: – classical, contemporary, jazz, folk, ethnic, etc. in a choral setting. Attendance at public performances is required.

**MU111C POP CHOIR (COLLEGE PREP) 9-10-11-12 1 Credit**

Pop Choir offers the opportunity to learn various forms of movement combined with Broadway-type music and music drawn from our multicultural heritage. The course will emphasize polished singing and movement and study originality. A main goal will be to present short musical style performances at the regularly scheduled music department concerts. Attendance at all public performances is required.

**MU211H MADRIGAL SINGERS (HONORS) 10-11-12 1 Credit**

This is a highly selective vocal ensemble. *A capella* singing is stressed with emphasis on the polyphonic music of the Renaissance. An intense concert season is part of the program.

PREREQUISITE: Audition and approval of the instructor

**MU201C MUSIC PRODUCTION THROUGH TECHNOLOGY (COLLEGE PREP)  
10-11-12 1 Credit**

This course is designed to instruct students in the art of recording, sequencing, and mixing down. Students will be cutting a CD and placing recordings on the net or podcasts. Students will be creating original music, as well as using tracks from popular software such as Garageband and Logic Express. Students will be writing and implementing scripts for their podcasts. Students will be creating sound tracks for film.

Note: This course may be used for computer literacy credit.

**MU161H PERCUSSION ENSEMBLE (HONORS) 9-10-11-12 1 Credit**

This course is open to freshmen through senior students who wish to study percussion instrument performance. Students will learn and develop performance skills specific to percussion instruments. They will experience and perform various percussion literature, symphonic literature, marching literature, while performing on and learning care techniques for a wide variety of percussion instruments. Students will support Symphonic Band and Freshman Wind performances. Participation in extra-curricular Marching Band is encouraged but not required.

**MU121H FRESHMAN WIND ENSEMBLE (HONORS) 9 1 Credit**

This ensemble is open to all freshmen who wish to study a woodwind or brass wind instrument. This course is designed to develop instrumental musicianship through an intense study of wind instrument techniques, including scales, modes chorales and wind ensemble repertoire. Attendance at public performances is required. Participation in extra-curricular Marching Band is encouraged but not required.

**MU251H SYMPHONIC BAND (HONORS) 10-11-12 1 Credit**

This course is designed for a select group of instrumental students who play wind instruments. Advanced repertoire representing various musical styles will be studied and performed. Attendance at all public performances is required. Participation in extra-curricular Marching Band is encouraged but not required.  
PREREQUISITE: Freshman Winds or approval following audition with Band Director.

**MU131H FRESHMAN ORCHESTRA (HONORS) 9 1 Credit**

This course is designed for students who play a stringed instrument. Focus will be on developing skills in shifting, vibrato, bowing, and other fundamental techniques. Attendance at all public performances is required.

**MU221H SYMPHONY ORCHESTRA (HONORS) 10-11-12 1 Credit**

This course is designed for the advancing string player. High quality orchestral repertoire will be performed in a full orchestra setting, including wind, brass, and percussion performers. Attendance at all public performances is required.  
PREREQUISITE: Freshman Orchestra or approval following audition with Orchestra Director.

**MU231H MUSIC THEORY (HONORS) 10-11-12 1 Credit**

This is an advanced course in the fundamentals of music theory which deals with notation, clefs, scales, tonality, intervals, chords, theory, terminology, ear training, elementary harmony, etc. Original music composition, and beginning music on the computer through music writing software, will be introduced in the second semester. Upon completion of this course students are encouraged to take the A.P. music theory exam.  
PREREQUISITE: Approval of instructor only

**MU911A MUSIC THEORY (A.P.) 11-12 1 Credit**

This is an advanced course exploring music theory, from the fundamentals of sound production to the analysis of complex musical forms as they occur in western music literature. An emphasis will be placed on rhythmic, melodic and harmonic analysis in both written and aural presentations. Students must be fluent in western music notation and be able to perform major and minor scales vocally or instrumentally. Participation in the Advanced Placement test is required.

**MU144C PIANO I (COLLEGE PREP) 9-10-11-12 .5 Credit**

This course involves students in music reading and its application to the piano keyboard. Students will study note names and values on the staff and keyboard. Hand/eye coordination will be emphasized and students will be encouraged to perform regularly.

**MU154C PIANO II (COLLEGE PREP) 9-10-11-12 .5 Credit**

A continuation of Piano I. Students will study techniques and pieces of greater complexity with continued encouragement of performance.  
PREREQUISITE: Completion of Piano I or permission of instructor

**MU241H      INTERMEDIATE PIANO (HONORS)                      10-11-12      1 Credit**

Intermediate piano is for the piano student who wants to take his/her knowledge to the next level. Students will learn to play by ear as well as written notation, chord progression and develop compositional and theory skills. Students will be required to perform before peers and at Music Department programs.

**MU164C      GUITAR (COLLEGE PREP)                                      9-10-11-12      .5 Credit**

This course involves students in music reading and its application to the guitar. Students will study guitar tablature, note names and values, guitar technique, and chord structure. Students will be encouraged to perform regularly.

**MU261C      CHAMBER MUSIC & JAZZ    9-10-11-12      1 Credit**

This course of study includes explorations of repertoire for woodwind and brasswind quintet, woodwind and brasswind ensemble, instrument specific ensembles (i.e. guitar quartet, trombone quartet, etc.), small jazz combo and jazz orchestra. Development of small ensemble performance practice and basic improvisational skill will be developed. Repertoire will include music from the Renaissance, Baroque, Classical, Romantic and Contemporary periods as well as the music of Contemporary American Jazz and Popular movements. The class is open to all wind, guitar, bass guitar (double bass), piano and percussion students. Percussion students must be fluent in keyboard percussion music notation. Guitar and bass guitar students must be fluent in music notation. Students who take this class may also participate in our extra-curricular Jazz program.



**PE214C      ADVANCED PHYSICAL EDUCATION      10, 11, 12      .5 Credit**

**Lifetime Sports** refers to sports that you can enjoy for an entire lifetime. They are typically not impact sports and if you start playing at a young age, you will likely be able to enjoy playing the rest of your life. Badminton, tennis, pickelball, rollerblading, golf, softball, and/or snow-shoeing will be explored.

PREREQUISITE: Passing Basic Physical Education

**PE224C      ADVANCED PHYSICAL EDUCATION      10, 11, 12      .5 Credit**

**Fitness/Recreation** refers to an activity in which you focus on physical fitness. Physical Fitness is considered a measure of the body's ability to function efficiently and effectively in work, sport and leisure activities. Weight training, fitness walking, plyometrics, rollerblading, aerobics, pilates, kickboxing, tae-bo, kempo, yoga, and/or dance will be explored.

PREREQUISITE: Passing Basic Physical Education

Note: All 10<sup>th</sup> graders must take physical education for state testing requirements.

# SCIENCE

Full Year Courses:		Half Year Courses:	
SC311H	Anatomy and Physiology (See Academy of Health & Science)	SC224C	Astronomy
SC211C	Aquatic Sciences	SC334C	Meteorology
SC901A	Biology (A.P.) (UConn)	SC344C	Science & the Environment
SC191C	Biology 9	SC354C	Sports Medicine
SC111C	Biology 10 *	SC324H	The Human Body in Health & Disease (Honors)
SC191H	Biology 9 (Honors)		
SC201C	Chemistry *		
SC201H	Chemistry (Honors)*		
SC911A	Chemistry (A.P.) (UConn)		
SC931A	Environmental Science (A.P.)		
FC361C	Nursing Assistant (See Family & Consumer Sciences)		
SC301C	Physics		
SC301H	Physics (Honors)		
SC921A	Physics (A.P.)		
SC941A	Physics Calc (A.P.)		

\*Please note this course meets for two periods a day for one semester.

<b>GRADES 9-12 SCIENCE PROGRAM</b>			
<b>9<sup>TH</sup> GRADE</b>	<b>10<sup>TH</sup> GRADE</b>	<b>11<sup>TH</sup> – 12<sup>TH</sup> GRADE (FULL YEAR COURSE)</b>	<b>10<sup>TH</sup> – 12<sup>TH</sup> GRADE (HALF YEAR COURSE)</b>
BIOLOGY 9	BIOLOGY	A.P. ENVIRONMENTAL SCIENCE	ASTRONOMY
HONORS BIOLOGY 9	HONORS CHEMISTRY	A.P. PHYSICS	HUMAN BODY HEALTH AND DISEASE (11 AND 12 ONLY)
PHYSICAL SCIENCE		A.P./UCONN BIOLOGY	METEOROLOGY
		A.P./UCONN CHEMISTRY	SCIENCE AND THE ENVIRONMENT
		ANATOMY & PHYSIOLOGY (ACADEMY OF HEALTH & BIOSCIENCE)	SPORTS MEDICINE
		CHEMISTRY	
		HONORS PHYSICS	
		NURSING ASSISTANT	
		PHYSICS	
		A.P. PHYSICS CALC	

**SC191C BIOLOGY 9 (COLLEGE PREP)****9****1 Credit**

In this course, students will learn broad biological concepts with an emphasis on scientific literacy. Scientific literacy includes observation, problem solving, collecting data and making inferences. Students will study topics on cell chemistry, and biotechnology, genetics, evolution and biodiversity. Inquiry based learning and required hands-on lab activities are integrated into the students' course work to prepare them for the CAPT. Labs are embedded in the curriculum. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

**SC191H BIOLOGY 9 (HONORS)****9****1 Credit**

This course is recommended for 9th graders with strong ability and/or interest in the sciences. The course will take a comprehensive look into biological concepts with an emphasis on scientific literacy. Scientific literacy includes observation, problem solving, collecting data, and making inferences. Students will study topics on cell chemistry and biotechnology, genetics, evolution, and biodiversity. Students will have the option of completing an independent science research project of their choice. Inquiry based learning and required hands-on lab activities will be integrated into the students' coursework to prepare them for the CAPT. Labs are embedded into the curriculum. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

**SC111C BIOLOGY 10 (COLLEGE PREP)****10****1 Credit**

In this course, students will learn broad biological concepts with an emphasis on scientific literacy. Scientific literacy includes observation, problem solving, collecting data and making inferences. Students will study topics on cell chemistry, and biotechnology, genetics, evolution and biodiversity. Inquiry based learning and required hands-on lab activities are integrated into the students' course work to prepare them for the CAPT. This class has a lab that meets once a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

**SC901A BIOLOGY /UCONN (A.P.)****11-12****1.4 Credits****(COLLEGE CREDIT – BIOLOGY 107 PRINCIPLES OF BIOLOGY I)****(COLLEGE CREDIT – BIOLOGY 108 PRINCIPLES OF BIOLOGY II)**

This course is designed to be the equivalent of a college introductory biology course, usually taken by biology majors during their first year. Some AP students, as college freshmen, may be permitted to enroll in upper-level biology courses or to register for courses that list biology as a prerequisite. Students are required to take the AP test. A fee of \$100 per semester is required for students to potentially receive UConn credit. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. Lab meets twice a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

**PREREQUISITE:** Successful completion of Biology and Chemistry

**SC931A ENVIRONMENTAL SCIENCE (A.P.)****11-12****1.4 Credits**

The goal of the A.P. Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Topics that will be studied will include: (1) Interdependence of Earth's Systems: Fundamental Principles and Concepts; (2) Human Population Dynamics; (3) Renewable and Nonrenewable Resources: Distribution, Ownership, Use and Degradation; (4) Environmental Quality; (5) Global Changes and Their Consequences; (6) Environment and Society: Trade-Offs and Decision Making. Assessment will be both traditional and performance-based. In addition to the usual classroom labs, exams and essays on environmental issues, students will be performing some outdoor labs on local environmental issues, and completing long-term environmental projects. These series of assessments will culminate in the A.P. Exam. It is expected that students taking this course will take the Advanced Placement examination given in mid-May by the College Board. Lab meets twice a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

**PREREQUISITE:** Successful completion of Biology and Chemistry

**SC324H THE HUMAN BODY IN HEALTH & DISEASE (HONORS) 11-12 .5 Credit**

Learn how major body systems work and what problems they might have, as well as the high tech and common sense methods of disease prevention and treatment. Students will: learn how health issues affect many other aspects of life and work; analyze their familial history to determine which disease(s) they are more predisposed to acquiring; gain an understanding of how their decisions today impact their future health; perform independent research, small group research, and participate in cooperative teaching. Topics of study include: Family Pedigrees, health issues, mechanisms of disease, homeostasis, major body systems, and nutrition and metabolism. 3 College Career Pathway credits are available when taken in conjunction with the Certified

Nursing Assistant Program.

**PREREQUISITE:** Successful completion of Biology

**SC311H ANATOMY & PHYSIOLOGY (HONORS)****11-12****1.4 Credits**

This course is designed to give students understanding of vertebrate anatomy (the structures in a body) and physiology (the functions of those structures). This course offers students an unique opportunity to get certified as a nursing assistant or shadow a medical professional of their choice. This course meets for 3 consecutive periods a day for the entire year. Students who take this course and earn a grade of C or higher will earn NVCC credits. This class is highly recommended for students who are interested in pursuing a medical career.

**PREREQUISITE:** Successful completion of Biology and Chemistry

**SC354C SPORTS MEDICINE (COLLEGE PREP)****11-12****.5 Credit**

This course is designed to provide students with an understanding of basic structural and functional human anatomy and physiology. Instruction will focus on recognizing athletic injuries and identifying potential treatments. This course will be helpful for students interested in possible career choices in the area of allied health professions, including Athletic Training. This course is an affiliate course of The Academy of Health and Biosciences.

PREREQUISITE: Successful completion of Biology

**SC211C AQUATIC SCIENCES (COLLEGE PREP)****10-11-12****1 Credit**

Fall: During the first semester, students will explore life forms from microscopic to whale-sized that live in the oceans and seas. Designed for students who want additional studies in the life sciences, this course will investigate the physical aspects of the oceans, plant and animal physiology, ocean ecology, and maritime industries such as fishing, whaling and seafood production. During the second semester, the primary focus will be Freshwater Biology. Here students will explore the diverse life forms found in streams, ponds, lakes, and wetlands from the microscopic to the macroscopic. Hands on experience and career options will be presented and emphasized. This course will investigate plant and animal anatomy and physiology as it relates to the freshwater environment. Freshwater ecosystems, large and small, are vital to all of us.

PREREQUISITE: Completion or concurrent enrollment in Biology

**SC224C ASTRONOMY (COLLEGE PREP)****10-11-12****.5 Credit**

This course is a study of the principles and concepts of astronomy with heavy emphasis on recent accomplishments in space. The vast opportunity for new discoveries about the universe is explored. A mathematics background is not required.

**SC334C METEOROLOGY (COLLEGE PREP)****10-11-12****.5 Credit**

Meteorology surveys the principles and concepts related to understanding weather and climate. Students gain conceptual knowledge through the formal study of the elements of weather and the cause and effect relationships of climate. Local weather conditions will be emphasized to promote understanding and awareness of basic principles. Course topics include: weather forecasting, meteorological instruments, and atmosphere-geographic interactions. Science study skills are emphasized throughout the course and research papers on topics of interest are required.

**SC344C SCIENCE & THE ENVIRONMENT (COLLEGE PREP)****10-11-12****.5 Credit**

Science and the Environment is designed to increase the students' awareness of their surroundings. Emphasis is placed on the important interrelationships among living things and the physical environment. Course topics include: investigations in ecology, populations of living things, water and air pollution, and energy relationships.

**SC201C CHEMISTRY (COLLEGE PREP)****10-11-12****1.2 Credits**

This course provides an overview of chemical concepts. Emphasis is placed on the role and impact of chemicals in health, political, economic and social domains at a local and global level. Reading and research is required, as well as careful analysis in writing and class discussion of complex interactions of science and society. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. This class has a lab that meets once a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

COREQUISITE: Algebra I

**SC201H CHEMISTRY (HONORS)****10-11-12****1.2 Credits**

This course provides an in-depth study of the principles and concepts of chemistry with emphasis on the application of mathematics and is recommended for students who have strong ability and/or interest in the sciences. This course would be appropriate for students interested in science or engineering related college majors. Students will have the option of completing an independent science research project of their choice. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. This class meets for a double period for one semester. Labs are embedded in the curriculum. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

PREREQUISITE: Successful completion of Algebra I

**SC911A CHEMISTRY /UConn (A.P.)****11-12****1.4 Credits****(COLLEGE CREDIT – CHEM 127Q and 128Q GENERAL CHEMISTRY)**

This course is designed to be the equivalent of the general chemistry course usually taken by chemistry majors during their first year. Some AP students, as college freshmen, may be permitted to enroll in upper-level chemistry courses or to register for courses that list chemistry as a prerequisite. Students are required to take the AP test. A fee of \$100 per semester is required for students to potentially receive UConn credit. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. Lab meets twice a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

PREREQUISITE: Successful completion of Chemistry

**SC301C PHYSICS (COLLEGE PREP)****11-12****1.2 Credit**

This course will introduce students to central concepts of physics. The emphasis will be on relating to the things that are familiar in the everyday environment, and supportive mathematical concepts. Students will learn scientific reasoning and its application to everyday life. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. Lab meets once a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

PREREQUISITE: Successful completion of Algebra and Geometry or concurrent enrollment in Algebra II

**SC301H PHYSICS (HONORS)****11-12****1.2 Credit**

This is an introductory physics course covering mechanics, kinetic and potential energy, wave theory, electricity, magnetism and modern discoveries and applications of physics. The course explains these concepts through the use of math, problem solving, discussion and computer assisted programs. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. Lab meets once a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the student's grade.

PREREQUISITE: Successful completion of Algebra II or concurrent enrollment in Pre-Calculus

**SC921A A.P. PHYSICS****12 1.4 Credits**

This course provides a systematic introduction to the main principles of college level physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry, but rarely calculus. Some AP students, as college freshmen, are permitted to enroll in upper-level physics courses or register for courses that list physics as a prerequisite. Students are required to take the AP test. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. Lab meets twice a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the students grade.

**PREREQUISITE:** Successful completion of Physics. Successful completion of Algebra II or concurrent enrollment in Pre-Calculus.

**SC941A A.P. PHYSICS CALC****12 1.4 Credits**

This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. The sequence is parallel to or preceded by mathematics courses that include calculus. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. Strong emphasis is placed on solving a variety of challenging problems, some requiring calculus. The subject matter of the course is principally mechanics and electricity and magnetism, with approximately equal emphasis on these two areas. Some A.P. students, as college freshmen, are permitted to enroll in upper-level physics courses or register for courses that list physics as a prerequisite. Students are required to take the A.P. test. Inquiry based learning and required hands-on lab activities are integrated into the students' course work. Lab meets twice a week. Summer work will be handed out at the end of the year and will also be posted on the Danbury High School website. This work will be collected at the beginning of the year and will count towards the students grade.

**PREREQUISITE:** Successful completion of Physics. Concurrent enrollment or successful completion of Calculus.

## SOCIAL STUDIES

Full Year Courses:		Half Year Courses:	
SS301C	American Studies	SS304C	Asian Studies (Focus on China)
SS301H	American Studies (Honors)	SS314C	Civics
SS901A	European History (A.P.)	SS214C	Civil and Consumer Law
SS961A	Government & Politics (A.P.)	SS224C	Contemporary Issues
SS911A	Human Geography (A.P.)	SS234C	Criminal Law
SS921A	Macro Economics (A.P.)	SS314H	Civics (Honors)
SS201C	Modern World Studies	SS324C	Economics
SS201H	Modern World Studies (Honors)	SS344C	Intro. To Anthropology
SS931A	Psychology (A.P.)	SS334C	Introductory Psychology
SS311C	United States History	SS244C	Military History
SS311H	United States History (Honors)	SS254C	Multicultural Issues
SS941A	United States History (A.P.)	SS354H	Philosophy (Honors)
SS951A	World History (A.P.)	SS364C	Sociology
SS191C	World Studies		
SS191H	World Studies (Honors)		

**GRADES 9-12 SOCIAL STUDIES PROGRAM**

<b>9<sup>TH</sup> GRADE</b>	<b>10<sup>TH</sup> GRADE</b>	<b>11<sup>TH</sup> GRADE</b>	<b>GRADES 10, 11, AND 12</b>
<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>ELECTIVES</b>
WORLD STUDIES	A.P. WORLD HISTORY	A.P. U.S. HISTORY	A.P. ECONOMICS
	MODERN WORLD STUDIES	AMERICAN STUDIES	A.P. EUROPEAN HISTORY
	A.P. EUROPEAN HISTORY	U.S. HISTORY	A.P. GOV'T. & POLITICS
			A.P. HUMAN GEOGRAPHY
			A.P. PSYCHOLOGY
			ASIAN STUDIES 11-12
		CIVICS (or A.P. GOV'T. & POLITICS) (REQUIRED COURSE TAKEN IN 11 <sup>TH</sup> OR 12 <sup>TH</sup> GRADE)	
			CIVIL & CONSUMER LAW 10-11-12
			CONTEMPORARY ISSUES 10-11-12
			CRIMINAL LAW 11-12
			ECONOMICS 11-12
			INTRODUCTION TO ANTHROPOLOGY 11-12
			INTRODUCTORY PSYCHOLOGY 11-12
			MILITARY HISTORY 10-11-12
			MULTI-CULTURAL ISSUES 10-11-12
			PHILOSOPHY 11-12
			SOCIOLOGY 11-12

**SS301C AMERICAN STUDIES**

**11**

**1 Credit**

American Studies is a course that integrates American literature and history to examine the development of the American character from the Great Depression to today. The course explores classics of literature, film, music and art to bring our evolving national history and expanding culture to life. Students will also work on vocabulary development, rhetoric and analysis of both non-fiction and fiction. They will work *extensively* in groups to create and present projects to improve oral presentation skills, writing skills and decision-making skills. Strong attendance and initiative are critical to success. This course meets U.S. History and English 3 requirements.

**SS301H      AMERICAN STUDIES (HONORS)      11      1 Credit**

American Studies is a course that integrates American literature and history to examine the development of the American character from the Great Depression to today. The course explores classics of literature, film, music and art to bring our evolving national history and expanding culture to life. Students will also work on vocabulary development, rhetoric and analysis of both non-fiction and fiction. They will work *extensively* in groups to create and present projects to improve oral presentation skills, writing skills and decision-making skills. Strong attendance and initiative are critical to success. Honors sections will delve further back into American history to trace the origins of issues that the nation faces today. Meets 10 periods a week.

**SS344C      INTRODUCTION TO ANTHROPOLOGY      11-12      .5 Credit**

This course is designed to introduce students to the general concepts of physical and cultural anthropology along with their related fields. Topics for physical anthropology will include evolution, ancient life forms, modern primates, and human evolution. Cultural anthropology will focus on archaeology and case studies of various traditional peoples and the environments they inhabit.

**SS941A      U.S. HISTORY (A.P.)      11      1 Credit**

The A.P. program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. Students are required to take the A.P. test. Summer work is mandatory and will be collected the first day of the new school year and counted as test or quiz grades for the first quarter. Summer work is distributed at a meeting in June prior to final exams.

**SS921A      MACRO ECONOMICS (A.P.)      11-12      1 Credit**

Economics is a study of wealth and how people manage their resources to satisfy their needs. The course is designed to involve students in the practical everyday world of making intelligent decisions in money management. It stresses the necessity for planned spending and saving to achieve and maintain personal economic stability and security. Through study and discussion, each student will have a better understanding of the economic forces, which will shape his or her life today and in the future.

**SS311C      UNITED STATES HISTORY      11      1 Credit**

This US History course covers major events and turning points starting with the Stock Market Crash of 1929 and The Great Depression. The curriculum spirals up to and including present day issues and challenges facing America today. Students will work with complex research and historical writing skills through a variety of critical thinking activities and projects. Student will investigate historical events through a unique lens, which focuses on civil rights issues over time. Additionally, a yearlong portfolio project will allow students to demonstrate and reflect on a variety of historical thinking skills mastered through each semester. The portfolios will serve to prepare students for a required major research paper due towards the conclusion of the course.

**SS311H      UNITED STATES HISTORY (HONORS)      11      1 Credit**

Students pursuing the Honors track will be challenged with a more detailed account of history through extensive and more complex text, primary and secondary source documentation, and literature. In addition to the core curriculum, students must complete additional assignments focused on critical analysis and evaluation of time periods and events in both historical and contemporary context. The pacing of this course is rigorous and demands students prepare for classes independently, with little support in core skill areas.

**SS234C      CRIMINAL LAW      10-11-12      .5 Credit**

Criminal Law addresses our legally complex American society in a practical and helpful manner. Criminal Law deals with the concepts of law and society, the issues of individual rights and responsibilities, and the causes, costs, and cures of crime. Topics covered in this course throughout the semester include but are not limited to: Introduction to Criminal law, the Court System, the Bill of Rights, Constitutional Amendments, Juvenile Justice, Lawyers, and Understanding Your Rights.

**SS214C      CIVIL AND CONSUMER LAW      10-11-12      .5 Credit**

Civil and Consumer Law addresses our legally complex American society in a practical and helpful manner. Civil and Consumer Law includes the concepts of civil law, consumers' rights, the role of law in the family structure, and an analysis of liability, housing, and employment. Topics covered in this course throughout the semester include but are not limited to: Introduction to Civil Law, the Court System, the Bill of Rights, the Constitutional Amendments, Small Claims Court, Torts, Consumer Law, Credit Car Buying, Family Law, Employment, and the Law.

**SS324C      ECONOMICS (COLLEGE PREP)      11-12      1 Credit**

Economics is a study of wealth and how people manage their resources to satisfy their needs. The course is designed to involve students in the practical everyday world of making intelligent decisions in money management. It stresses the necessity for planned spending and saving to achieve and maintain personal economic stability and security. Through study and discussion, each student will have a better understanding of the economic forces which will shape his or her life today and in the future.

**SS254C      MULTI-CULTURAL ISSUES      10-11-12      .5 Credit**





In this yearlong survey course, students will study significant events of global 20<sup>th</sup> century history. A regional evaluation of events of the past will help students to understand the conflicts and crises of today's global civilization. Themes of power, nationalism, war, peace and global interdependence provide a powerful lens to view the world we live in. During the course of the year, students will improve analytical and research skills, reading comprehension, note taking and writing proficiency. Current events will be reviewed weekly and students will complete a significant research project. Students pursuing the Honors track will be challenged with a more detailed account of history through extensive and more complex text, primary and secondary source documentation, and literature. In addition, to the core curriculum, students must complete additional assignments focused on critical analysis and evaluation of time periods and events in both historical and contemporary context. The pacing of this course is rigorous and demands students prepare for classes independently, with little support in core skill areas. The honors level of this course will require students to participate in a yearlong portfolio project that will focus on current events and geographic studies of world regions. Research projects related to contemporary issues, culture, as well as significant individuals and events will compliment each unit.

**SS901A EUROPEAN HISTORY (A.P.) 10-11-12 1 Credit**

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the A.P. program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. Students are required to take the A.P. test.

**SS354H PHILOSOPHY (HONORS) 11-12 .5 Credit**

This course of study will introduce students to the love of wisdom: philosophy. The class will grapple with timeless ideas and new ways of perceiving and thinking. A search for the truth and meaning of human existence will be conducted through class discussion and debate. Inquires and propositions will be made into an examination of "the good life" as students hone their reasoning, questioning, and problem solving strategies. The masters of classical and contemporary philosophy will be investigated along with the meaning and role of ethics, logic, epistemology, esthetics, and metaphysics in society.

**SS911A HUMAN GEOGRAPHY (A.P.) 11-12 1 Credit**

The purpose of the A.P. course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Students are required to take the A.P. test.

**SS921A MACRO ECONOMICS (A.P.) 11-12 1 Credit**

An A.P. course in Macroeconomics is designed to give a thorough understanding of the principles of economics that apply to a nation's economic system as a whole. The course focuses on such key economic concepts as Gross Domestic Product, the banking system and creation of money, inflation, unemployment, international trade and the international value of the dollar, the Federal Reserve, and basic supply and demand. Students are required to take the A.P. test. Thorough preparation for this national exam is a priority. However, of equal importance is the goal of providing the necessary tools to our graduates, that they may make the best-informed economic decisions for their country's future.

**SS961A          GOVERNMENT & POLITICS (A.P.)          11-12          1 Credit**

The A.P. Government & Politics: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality. Students are required to take the A.P. test.

Note: This course meets the Civics requirement

**SS951A          WORLD HISTORY (A.P.)          10          1 Credit**

The purpose of the A.P. World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Students are required to take the A.P. test.

**SS224C          CONTEMPORARY ISSUES          10-11-12          .5 Credit**

This course will focus on the current events and issues that affect the United States and its interactions with other countries in the world. It will trace the historical development of relevant issues from the late 20th century and the 21st century and examine their possible impact on the future. Area of focus will include world leaders and events, the environment, economy, health issues, politics, legal issues, technology, and religion.

# **SPECIAL EDUCATION**

All Danbury Special Education students are educated in the least restrictive environment. Planning and Placement teams determine individual educational plans. All graduation requirements are offered in the co-teaching model. Post high school transition is an important focus for all Special Education students. The continuum of Special Education Programs is described on the following pages.

## **RESOURCE/STUDY SKILLS ROOM PROGRAM**

The Resource/Study Skills Program provides direct and indirect academic, social and emotional support to students needing assistance in mainstream classes. Academic support includes remediation, supplemental instruction, applied learning skills, and compensatory techniques. An important function of the Resource Room Program is to prepare students for mainstream class success. The amount of time a student is scheduled into the Resource Room is determined by the Planning and Placement Team.

Study skills are an integral part of any Resource Program. Grades and credit will be awarded through active participation in the Study Skills Program.

Credits: 3 days per week for one semester = .3 credits for the semester

## **CO-TEACHING**

Co-teaching utilizes the expertise of the Special Education teacher and the regular education teacher in the delivery of instruction to students. The emphasis in co-taught classes is on the development of study skills and learning strategies within the general curriculum. Both regular education and Special Education students benefit from this method of instruction.

## **CO-TAUGHT CLASSES**

Algebra I	English IV
Astronomy	Geometry
Biology	Introduction to Computers
Chemistry	Modern World Studies
Civil & Consumer Law	Physical Education
Civil Law	Pre-Algebra
Civics	Science and the Environment
English I	U.S. History
English II	World Studies
English III	

## **Basic Academic Skills Program**

**And**  
**Communication, Behavioral and Socialization Program**

Both of the above programs are structured to meet the individual needs of high school students who are cognitively challenged and/or developmentally delayed. Basic and practical life skills essential to independent living in both the community and at home are the focus of both programs. Major units of study include pre-vocational training, basic communication, functional reading, math, social studies, science, Basic Foods, Health, P.E. and Sign Language. Through Individual Educational Plans, students are given the opportunity to take classes in the Less Restrictive Environment. Basic Foods, Focus Reading, Health, Computers, and American Sign Language are offered in co-taught models.

**The Academy of Western Connecticut**

The Academy of Western Connecticut is a community-based program which prepares young adult learners with disabilities for a successful adjustment to adulthood. This includes mastery of selected skills essential for assuming responsible productive roles in their communities.

Students work with program staff and community resources to refine and achieve transition goals related to employment, independent living, social/recreational, and functional academic skills.

Students' schedules will be based on their individual employment, social, academic, and community goals. The ultimate goal for participating students will be personal independence, community inclusion, and fulfillment of one's life ambitions.

**The Western Connection**

The Western Connection is a regional program that is located on the campus of Western Connecticut State University. The program prepares students with severe disabilities between the ages of 19-21 for successful adjustment to adulthood. Students are provided with hands-on work experiences, social/recreational experiences, and life skills instruction to assist in the development of the vocational and social skills necessary for competitive employment and independent community living.

**Vocational Training Program**

This program provides Special Education students with occupational exploration and vocational training ranging from highly supervised enclave programs, individualized work sites, individualized placements with job coaching to "On-the-Job Training" (OJT) with minimum wage for up to 15 hours.

**Self-Contained Intensive-Behavior Program**

The Self-Contained Intensive-Behavior Program (SCI-B) provides small group and/or individualized instruction to students who struggle to succeed in the mainstream due to behavioral and/or social/emotional issues. It is a credit incentive program which immediately rewards “on task” positive academic behavior. Social work support is an integral component of the program. Students are encouraged to move to mainstream classes when appropriate. In mainstream classes students continue to be supported and monitored by the SCI-B team.

# TECHNOLOGY EDUCATION

Full Year Courses:		Half Year Courses:	
<b>Communication Technology:</b>			
TE131C	Architectural Design I	TE154C	Entertainment Technologies I
TE231H	Architectural Design II (Honors)	TE164C	Entertainment Technologies II
TE121C	Computer-Aided Drafting I	TE044C	Photography I
TE101C	Foundations of Technology	TE054C	Photography II
TE111C	Graphic Arts I	TE094C	Video Production I
TE221C	Graphic Arts II	TE104C	Video Production II
TE311H	Robotics (Honors)		
TE261C	Technological Issues		
<b>Construction Technology:</b>			
TE151C	Construction Systems I		
TE251C	Construction Systems II		
<b>Transportation Technology:</b>			
TE201C	Automotive Systems I		
TE211C	Automotive Systems II		
TE321C	Automotive Systems III		
TE141C	Transportation Systems I		
TE241C	Transportation Systems II		
<b>General Technology:</b>			
TE301C	Cooperative Work Experience		

TE101C      FOUNDATIONS OF TECHNOLOGY I (COLLEGE PREP)

9-10-11-12    1 Credit

This course prepares students to understand and apply cornerstone technological concepts and processes. Students in this course use hands-on lessons to learn the concepts and roles of engineering, design, invention, and innovation in creating technology systems that help make life easier and better. They learn to apply and transfer this knowledge to common, everyday problems. Students learn how to assess technology, its impacts and resulting issues, and present the positive and negative consequences and how these have shaped today's global society. This course incorporates the applications of mathematics and science concepts and provides a strong background for students investigating careers in the engineering areas. Group and individual lessons engage students in creating ideas, developing innovations, and engineering practical solutions. The course will focus on the development of knowledge and skills regarding the following aspects of technology: 1) its evolution; 2) systems; 3) core concepts; 4) design; and 5) utilization.

Note: This course can be used for computer literacy credit.

**TE261C      TECHNOLOGICAL ISSUES      (COLLEGE PREP)**  
**10-11-12      1 Credit**

In Technological Design, engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science, and mathematics concepts and skills to solve engineering design problems and innovative designs. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. This course challenges students to use technological design processes so that they can think, plan, design and create solutions to engineering and technological problems. Students are actively involved in the organized and integrated application of technological resources, engineering concepts, and scientific procedures.

PREREQUISITE: Foundations of Technology

Note: This course can be used for computer literacy credit.

## **COMMUNICATION TECHNOLOGY**

**TE131C      ARCHITECTURAL DESIGN I (COLLEGE PREP)**  
**9-10-11-12      1 Credit**

Using architectural computer software, this course will provide students with the necessary skills to do architectural drawing and design. Students will create floor plans, add doors, windows, furniture, and create a pictorial drawing of the plan with hidden lines removed. The projects assigned in this course have been carefully designed and paced to give the student a feeling of accomplishment in the construction of his/her own house/building plans. This course involves students in house/building design and construction. No drafting experience is needed.

Note: This course may be used for computer literacy credit.

**TE231H      ARCHITECTURAL DESIGN II (HONORS)      10-11-12      1 Credit**

This course is an advanced course for the student who is interested in a career relating to architecture. Students will explore creating objects with architectural software. Using 3D entities, students will develop a model city, shopping center, or dream house. Environmental issues will be covered pertaining to house/city/shopping center construction. Students will be involved in model making.

PREREQUISITE: Architectural Design I

Note: This course may be used for computer literacy credit.

**TE121C      COMPUTER-AIDED DRAFTING (COLLEGE PREP)**

**9-10-11-12    1 Credit**

Computer-Aided Drafting I emphasizes the theory and application of drafting principles used to create detailed drawings according to exact project dimensions and specifications. Instruction includes experiences in gathering and translating realistic project data or specifications, completion of two and three dimensional drawings, and the development of computer models. The techniques learned, and software used are state of the art and reflect current industry standards.

Note: This course may be used for 1 semester of computer literacy credit (.5 credit).

**TE044C      PHOTOGRAPHY I (COLLEGE PREP)**

**9-10-11-12    .5 Credit**

This course is an introduction to the art of photography. Students will learn and practice the skills of digital photography and use post-production software to edit their compositions. Connections to culture and society will be explored, as students are encouraged to create personal photographs based on classroom lessons and projects. Students will study the origins of photography while viewing, discussing and using a variety of photography methods.

**TE054C      PHOTOGRAPHY II (COLLEGE PREP)**

**9-10-11-12    .5 Credit**

This course builds on knowledge gained in Photography I. Students will expand their skills by experimenting further with both traditional and digital photography techniques within more advanced assignments. They will continue to connect their work to their own personal experiences and explore career opportunities in photography after high school.

PREREQUISITE: Photography I or approval of teacher

**TE111C      GRAPHIC ARTS I (COLLEGE PREP)**

**9-10-11-12    1 Credit**

This course will introduce students to the broad field of graphic arts. Projects will cover design fundamentals, color theory, typography, and the design process. Students will learn about digital prepress, press operations, product development, and design work flow.

Graphic Arts can be taken at any time as an introductory course. Note: This course may be used for computer literacy credit.

**TE221C      GRAPHIC ARTS II (COLLEGE PREP)**

**10-11-12      1 Credit**

Graphic Arts II builds on the skills that students learned in Graphic Arts I as well as provides experiences in various jobs in the Graphic Arts industry. Students learn by creating and producing designs that are used throughout the DHS community. This course goes more in depth with press operations and also provides students with a better understanding of the various careers in the Graphic Arts field. Students will experience using drawing tablets, creating kinetic typography, signage, publishing, rotoscoping, avatar design, technical writing, designing for small devices (like cell phones), group work, and many other hands on projects.

**PREREQUISITE:** Graphic Arts I

Note: This course may be used for computer literacy credit.

**TE311H ROBOTICS (HONORS) 11-12 1 Credit**

Robotics is intended to provide students with an introduction to the world of robotics through a series of hands on activities. Students will become familiar with, and demonstrate skills in, the principal areas that comprise robotic systems. Sensors, microprocessors, hardware, software, actuators, motors, gears, mechanism design, programming, and algorithm development will be covered in this course. Students will participate in a series of design projects where they will build robots, wire, program, characterize and integrate various sensors to provide environmental, and other types of sensing. Students will gain experience relevant to realistic industrial or personal applications using robotic controls.

**PREREQUISITE:** Algebra 2 Note: This course may be used for computer literacy credit.

**TE094C VIDEO PRODUCTION I (COLLEGE PREP) 9-10-11-12 .5 Credit**

Students will gain firsthand experience as they learn how to plan, capture, edit, create, videos to be broadcast on Comcast Channel 26. Students will learn about and experience what it is to be camera operators, editors, technical directors, sound assists, gaffers, graphic operators and various other careers in video production. Students will learn to edit live and prerecorded videos. Students will work with industry level software and non linear video editors.

Students will be required to work on video crews at events outside of school hours, i.e., sporting events, lectures, meetings or other school events.

If students are unable to work outside of class due to participation in sports, lack of ride, or busy work schedule, please speak with the instructor as accommodations can be made. (Don't let this requirement deter you from signing up for the class.)

**TE104C VIDEO PRODUCTION II (COLLEGE PREP) 9-10-11-12 .5 Credit**

Students will gain in-depth experience as they plan, produce, and direct videos to be broadcast on Comcast Channel 26. Students will experience what it is to be producers, directors, motion graphic editors, sound technicians, lighting designers, set designers and various other careers in video production. Students will learn to plan and produce live and prerecorded videos. Students will lead after school video productions, i.e., sporting events, meetings, and other productions. Students will leave the class with a demo tape that can be used in job interviews and college applications.

Students will be required to work on the video crew at events outside of school hours, i.e., sporting events, lectures, meetings or other school events.

If students are unable to work outside of class due to participation in sports, lack of ride, or busy work schedule, please speak with the instructor as accommodations can be made. (Don't let this requirement deter you from signing up for the class.)

**PREREQUISITE:** Video Production I or approval of teacher

**TE154C ENTERTAINMENT TECHNOLOGIES I (COLLEGE PREP)**

**9-10-11-12 .5 Credit**

This introductory course focuses on the development, design, and building of entertainment settings and structures. Entertainment Technologies will cover basic drafting conventions both by hand and with the assistance of computer drafting software. Drafting will focus on set ground plans, section drawings, lighting and sound plots. Hands on construction of set pieces, backdrops, platforms, and other entertainment related structures will allow students real-world opportunities while supporting both video production/ film classes and other events that take place on the Danbury High School campus. Entertainment Technologies courses do not have to be taken in sequence.

**TE164C ENTERTAINMENT TECHNOLOGIES II (COLLEGE PREP)**

**9-10-11-12 .5 Credit**

This course focuses on the design and implementation of lighting, projections, and sound reinforcement in entertainment. Students will explore the history of lighting and sound, the evolution of technologies, and the artistic design of a lighting or sound reinforcement plot. Lighting and sound plots will be developed and used in both video/film classes as well as in the DHS auditorium. Students will receive hands-on training and experience using digital lighting, sound, and projection equipment. Computer-Aided drafting will also be incorporated in this course. Entertainment Technologies courses do not have to be taken in sequence.

## **CONSTRUCTION TECHNOLOGY**

**TE151C CONSTRUCTION SYSTEMS I (COLLEGE PREP)**

**9-10-11-12 1 Credit**

Construction Systems is a course designed to help students understand how our constructed environment was built, is being built, and will be built in the future. Students will learn what it means to be responsible citizens in making decisions relative to our construction environment and in using construction technology. Students will be involved with the following construction procedures, using common tools, processing typical materials, and experiencing productive working conditions. The major strands of this course will involve designing, building, and using structures.

**TE251C CONSTRUCTION SYSTEMS II (COLLEGE PREP)**

**10-11-12 1 Credit**

A significant and critical part of our technological society is our construction world - our buildings, highways, dams, airports, and marine terminals. Students will develop the knowledge, insight, and understanding of the technological concepts essential to producing structures, such as buildings, bridges, dams, roads, and tunnels. Students will learn how to design structures to include the needs of the owner, the environment and social impact of the structure, to withstand loads and forces, and present this design in the form of drawings and specifications. Other areas to be covered include building codes, foundations, framing, plumbing, electrical installation, and drywall installation.

**PREREQUISITE:** Construction Systems I

## **TRANSPORTATION TECHNOLOGY**

**TE141C      TRANSPORTATION SYSTEMS I (COLLEGE PREP)**  
**9-10-11-12      1 Credit**

This course is designed to explore humankind's development of transportation systems and their associated components. The historical development and application of land, marine, air, and space transportation technologies are studied, as well as their social, environmental, and economic impact. All concepts in this class are reinforced utilizing a problem-solving approach in a laboratory setting involving individual and group work. Safe use of tools, machines, and equipment will be stressed in all facets of this course.

**TE241C      TRANSPORTATION SYSTEMS II (COLLEGE PREP)**  
**10-11-12      1 Credit**

This course is designed to continue and expand on both the design and development strategies and course content learned in Transportation Systems I. Students will further engage in problem-solving activities to design, produce, test, and analyze systems and subsystems of various forms of transportation. Topics include designing of mechanical components and integrated assemblies (geartrains, motors, power transmission, bearings, and fasteners), radio controlled vehicles, electrical systems, and fabrication techniques. Course content will also address the links between transportation systems and governmental regulations, energy resources, and career opportunities. Safe use of tools, machines, and equipment will be stressed in all facets of this course.

PREREQUISITE: Transportation Systems I

**TE201C      AUTOMOTIVE SYSTEMS I (COLLEGE PREP)**  
**10-11-12      1 Credit**

This course combines classroom and laboratory experiences that incorporate training in service and repair work on all types of automotive vehicles. Included in the course is training in the use of service information, and a variety of hand and power tools, as well as using the latest in computer diagnostic equipment. Instructions provide opportunities for students to learn diagnostic procedures to aid in trouble shoot malfunctions. Students will be provided with the opportunity to become proficient in the skills required for maintaining their personal vehicles. Course content will address ASE standards. Steering and suspension, brakes, engine performance, drive trains, electrical systems, air conditioning, welding and cutting of materials, and engine repair will be areas of focus in this course.

**TE211C      AUTOMOTIVE SYSTEMS II (COLLEGE PREP)**  
**10-11-12      2 Credits**

Students will operate an automotive repair business as part of this course. Automotive repair work will be scheduled on a regular basis and students will be responsible for completing the necessary repairs, providing detailed work reports, and billing customers for the work completed. Safety rules, diagnostics, work schedules, environmental cleanliness, and quality of work will be part of the students' experience in this career-orientated program. This class meets for a double period.

PREREQUISITE: Automotive Systems I

**TE321C      AUTOMOTIVE SYSTEMS III (COLLEGE PREP)**  
**11-12      2 Credits**



# WORLD LANGUAGES

## Full Year Courses:

<b>WL901A</b>	<b>A.P. French</b>
<b>WL911A</b>	<b>A.P. Spanish</b>
<b>WL301C</b>	<b>American Sign Language</b>
<b>WL131C</b>	<b>Chinese 1</b>
<b>WL231C</b>	<b>Chinese 2</b>
<b>WL331C</b>	<b>Chinese 3</b>
<b>WL101C</b>	<b>French 1</b>
<b>WL111C</b>	<b>French 2</b>
<b>WL121C</b>	<b>French 3</b>
<b>WL211H</b>	<b>Honors French 4</b>
<b>WL311H</b>	<b>Honors French 5</b>
<b>WL451H</b>	<b>Honors Italian 4</b>
<b>WL271H</b>	<b>Honors Spanish 4</b>
<b>SL321H</b>	<b>Honors Spanish 5</b>
<b>WL141C</b>	<b>Italian 1</b>
<b>WL241C</b>	<b>Italian 2</b>
<b>WL251C</b>	<b>Italian 3</b>
<b>WL151C</b>	<b>Spanish 1</b>
<b>WL161C</b>	<b>Spanish 2</b>
<b>WL171C</b>	<b>Spanish 3</b>



**WL141C ITALIAN 1 (COLLEGE PREP) 9-10-11-12 1 Credit**

Italian 1 is an introductory course in language and culture. Basic Italian sounds are introduced followed by pronunciation and articulation drills. Basic vocabulary and elementary grammar necessary for everyday dialogue and conversation are studied. Some fundamental differences between American and Italian culture are noted. Gradual use of Italian in class by both teacher and students is begun in an effort to develop understanding of and the ability to speak in Italian.

**WL241C ITALIAN 2 (COLLEGE PREP) 10-11-12 1 Credit**

Italian 2 is a continuation beyond the introductory course emphasizing on aural/oral skills with continued stress on vocabulary and grammar study. Italian and American cultural differences provide a basis for conversation and elementary composition in Italian.

PREREQUISITE: Italian 1

**WL251C ITALIAN 3 (COLLEGE PREP) 10-11-12 1 Credit**

Italian 3 is an intermediate course stressing development of skills for reading and writing. There is review and reinforcement of grammar studies thus far followed by an introduction of more advanced structure. Use of Italian in class by teachers and students is more intensive. Short cultural readings are assigned for class discussion and composition.

PREREQUISITE: Italian 2

**WL451H HONORS ITALIAN 4 (HONORS) 12 1 Credit**

Italian 4 continues the work done in the intermediate course. Students continue developing the four skills of listening, speaking, reading and writing. Review of grammar studies thus far is followed by more advanced grammar. Italian is used as the medium of instructions to the extent possible.

PREREQUISITE: Italian 3

**WL151C SPANISH 1 (COLLEGE PREP) 9-10-11-12 1 Credit**

Spanish 1 is an introductory course in language and culture. Basic Spanish sounds are introduced followed by pronunciation and articulation drills. Basic vocabulary and elementary grammar necessary for everyday dialogue and conversation are studied. Some fundamental differences between American and Spanish culture are noted. Gradual use of Spanish in class by both teacher and students is begun in an effort to develop understanding and the ability to speak in Spanish.

**WL161C SPANISH 2 (COLLEGE PREP) 9-10-11-12 1 Credit**

Spanish 2 is a continuation beyond the introductory course emphasizing aural/oral skills with continued stress on vocabulary and grammar study. Spanish and American cultural differences provide a basis for conversation and elementary composition in Spanish.

PREREQUISITE: Spanish 1

**WL171C SPANISH 3 (COLLEGE PREP) 9-10-11-12 1 Credit**

Spanish 3 is an intermediate course stressing development of skills for reading and writing. There is review and reinforcement of grammar studies thus far, followed by introduction of more advanced structure. Use of Spanish in class by teacher and students is more intensive. Short cultural readings are assigned for discussion and for composition.

PREREQUISITE: Spanish 2

**WL271H SPANISH 4 (HONORS) 10-11-12 1 Credit**

This is an intensive and challenging course for students who have excelled in Spanish 3. More difficult readings are assigned, and greater stress will be placed on the ability to express oneself more accurately in written composition and in conversation.

PREREQUISITE: Spanish 3 and superior work

**SL321H SPANISH 5 (HONORS) 11-12 1 Credit**

Superior students who have demonstrated through Spanish 4 a high level of proficiency will want to take this course. It continues the honors track in Spanish and prepares students for the challenging work to be undertaken in an advanced placement course.

PREREQUISITE: Spanish 4/Honors Spanish 4 and teacher recommendation

**WL911A SPANISH (A.P.) 12 1 Credit**

An A.P. Spanish Language course is comparable to an advanced level (5th- and 6th-semester or the equivalent) college Spanish language course. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition. The course objectives include learning to understand Spanish spoken by native speakers at a natural pace, with a variety of regional pronunciations, in both informal (interpersonal) and formal (presentational) contexts; develop an active vocabulary sufficient for reading newspaper and magazine articles, contemporary literature, and other non-technical writings (websites, letters and emails, advertisements, signs and instructions) in Spanish without dependence on a dictionary; and express yourself by describing, narrating, inquiring, and developing arguments in Spanish, both orally and in writing, with reasonable fluency, using different strategies for different audiences and communicative contexts. Students are required to take the A.P. test.

**WL301C AMERICAN SIGN LANGUAGE A (COLLEGE PREP) 11-12 1 Credit**

American Sign Language is an introductory course in language and culture. Finger spelling is introduced followed by visual-gestured activities. Basic vocabulary and elementary grammar necessary for everyday dialogue and conversation are studied. Some fundamental characteristics of the deaf culture are noted. Gradual use of American Sign Language in class by both teacher and students is begun in an effort to develop an understanding and the ability to use American Sign Language.

**WL131C CHINESE 1 (COLLEGE PREP) 9-10-11-12 1 Credit**

Chinese 1 is an introductory course in language and culture. Basic Chinese sounds are introduced followed by pronunciation and articulation drills. Basic written characters will also be taught. Additionally, basic vocabulary for everyday dialogue and conversation are studied. Some fundamental differences between American and Chinese cultures are noted. Gradual use of spoken Chinese in class by both teacher and students is begun in an effort to develop understanding of and the ability to converse in Chinese.

**WL231C      CHINESE 2                      (COLLEGE PREP)                      10-11-12                      1 Credit**

Chinese 2 is a continuation beyond the introductory course emphasizing aural/oral skills with continued stress on vocabulary and grammar study. Students will continue to work with Chinese written characters. Chinese and American cultural differences provide a basis for conversation and elementary composition in Chinese.

**WL333C      CHINESE 3                      (COLLEGE PREP)                      11-12                      1 Credit**

Chinese 3 is an intermediate course stressing development of skills for reading and writing. There is a review and reinforcement of grammar studied thus far, followed by introduction of more advanced structure. Use of Chinese in class by teacher and students is more intensive. Short cultural readings are assigned for discussion and for composition.

**PREREQUISITE:** Chinese 2