

**WATERTOWN HIGH SCHOOL**  
**2016-2017 2017-2018 PROGRAM OF STUDIES**

“The Watertown Public Schools does not discriminate on the basis of sex in its educational and employment practices as required by Title IX.”

“The Watertown Public Schools does not discriminate on the basis of race, color, national origin, sex, or disability.”

"The Watertown Public Schools does not discriminate in educational and employment practices on the basis of race, color, sex, religion or national origin as required by the regulations pertaining to Massachusetts General Laws Chapter 622."

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## **Guidance Department**

**617-926-7736**

Lead Guidance Counselor	Ms. Adrienne Eaton	Ext. 36605
Guidance Counselor	Dr. Katja Baker	Ext. 36603
Guidance Counselor	Ms. Jaimie Leonard	Ext. 36604
Guidance Counselor	Ms. Lindsay Orpen	Ext. 36602
Guidance Counselor	Ms. Kim Osborne	Ext. 36606
Guidance Secretary	Ms. Linda Tracy	Ext. 36601

## **Watertown High School Mission**

The mission of Watertown High School is to produce lifelong learners through examination of human achievements, development of essential skills, and promotion of civic responsibility and ethics. We are committed to a rigorous curriculum designed to foster students' growth as creative and independent thinkers. We will provide a safe and nurturing environment in which students and faculty has the opportunity to realize their potential.

## **Core Values**

- R** We **RESPECT** each other, and we respect ourselves.
- E** We are **EMPOWERED** to grow and pursue our dreams.
- A** We **ACHIEVE** as students and as well-rounded individuals.
- C** We aspire to **CREATE** something new from our knowledge and experiences.
- H** We **HONOR** our rights and responsibilities as members of this community.

# General Information

## Graduation Requirements

**All students must demonstrate the following competencies:**

Reading/Writing/Speaking Skills demonstrated by successful completion of four years of English courses, which include a written thesis paper, at least six pages in length, and oral presentation and defense of a written thesis/project in any discipline or department.

**Self-Assessment • Establishing Goals** demonstrated by completion of specific activities for grades 9 - 12 as part of the developmental guidance program.

**Problem solving and Respect/Concern for Others** demonstrated by completion of community service for a minimum of thirty-six hours.

**Computer Literacy** demonstrated (at a minimum) by competency in word processing, database and spreadsheet applications within the context of academic courses.

### *All Students must earn 134 credits*

**In earning the credits, students are required to successfully complete the following courses in the indicated disciplines:**

English	4 full year courses or equivalent
Social Studies	3 full year courses including two years of U.S. History
Math	4 full year courses or equivalent
Science	3 full year courses or equivalent
Fine and Performing Arts/ Career & Technical Education	1 full year course or 2 semester courses from either of these areas
Physical Education	1 course per year; minimum of 4 total semester courses
Wellness	1 semester course in Grade 9
World Languages	3 full year courses strongly recommended

In addition, all students must pass the Massachusetts Comprehensive Assessment System (MCAS) in Science, and Mathematics and English Language Arts with a score of 220 or higher on each test.

## Accreditation Statement

Watertown High School is accredited by the New England Association of Schools and Colleges Inc. (NEASC), a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

## Minimum Credit Requirement

Before choosing your subjects for next year, think about your reasons for attending high school and what you would like to do in the future. Have discussions with your counselor and teachers to help you define your goals and plan your program. Your parents should be actively involved in helping select the best possible school program. Teachers and guidance counselors will help by recommending appropriate courses for you. In order to develop a coherent plan, map out the courses you plan to take in of each of your four years at Watertown High School.

All students must carry at least 36 credits per year although 42 are recommended and must satisfy all graduation requirements (see listing on page 4). ***Students, who have a Support Class or teacher aide position, may not also have a study.*** Once a course has been successfully completed, with the exception of Band, Chorus, String Orchestra, Studio Art, Journalism, or Physical Education, the course may not be repeated for credit.

It is the responsibility of each student to know if he/she is carrying enough credits for graduation. School staff members keep a check on student graduation requirements; however, each student is asked and expected to monitor his/her individual program. All courses are offered subject to enrollment and staffing.

## Parental Appeal Procedure for Course Selection

In the event that a parent does not agree with a teacher's recommendation for course/level for the next academic year, the following procedure is in place:

1. Parent writes note to teacher requesting conversation about recommendation for course selection and/or higher/lower placement. Note should include parent's work and home phone numbers.
2. Teacher calls parent. If placement is not resolved, teacher advises parent to contact department ~~head~~ coordinator.
3. Department ~~head~~ coordinator and parent converse. If no resolution, parent is advised to contact High School Principal.
4. Principal ~~writes letter~~ responds in writing to parent (approval/disapproval/conditions) and copy of letter is sent to guidance counselor/teacher/department ~~head~~ coordinator. The guidance counselor will act as a mediator while the process moves along. The same process will apply for students moving from grade 8 to grade 9.

## Choosing Courses for College Admissions

- A. It is important to understand that each college has its own admissions policy. You must check with each college regarding the individual school requirements.
- B. If you plan to go to a four-year college and earn a Bachelor’s Degree (BA/BS), we strongly recommend that you consider taking the following courses at Watertown High School:
- |                 |                       |
|-----------------|-----------------------|
| English         | 4 years               |
| World Languages | 3 years, preferably 4 |
| Mathematics     | 4 years               |
| Science         | 3 years, preferably 4 |
| Social Studies  | 3 years, preferably 4 |
- C. Two-year Community and Junior Colleges have both career and transfer programs. Career Programs prepare students for entrance into semi-professional or technical fields after two years of study. Students in Transfer Programs are prepared to enter their junior year at a four-year college. Entrance into these programs is open to all high school graduates and is more flexible than for four-year schools. Some career programs are quite competitive, however, and require advanced skills and proficiencies. An Associate’s Degree is awarded after successful completion of either type of program.

### Massachusetts State Colleges

According to the Massachusetts Department of Higher Education, in order for a student to be eligible for acceptance into the Massachusetts State College system as a freshman, all students must:

- Take 17 college preparatory high school courses
- Earn at least a 3.0 grade point average in college preparatory courses **or** meet an SAT/ACT score requirement based on their GPA (see chart below)
- Take the SAT or ACT test

#### Required SAT or ACT Scores for Freshman Applicants to UMass Undergraduate Campuses

Weighted Average GPA	Combined SAT Score (Reading and Math)	ACT Score
2.51-2.99	950	20
2.41-2.5	990	21
2.31-2.4	1030	22
2.21-2.3	1070	23
2.11-2.2	1110	24
2.0-2.1	1150	25

#### Required SAT or ACT Scores for Freshman Applicants to State Universities

Weighted Average GPA	Combined SAT Score (Reading and Math)	ACT Score
2.51-2.99	910	19
2.41-2.5	950	20
2.31-2.4	990	21
2.21-2.3	1030	22
2.11-2.2	1070	23
2.0-2.1	1110	24

The academic course requirements for Massachusetts State Colleges are:

- English - 4 courses
- Mathematics - 4 courses (Algebra I & II and Geometry or Trigonometry, or comparable coursework, or comparable course work including mathematics during the final year of high school)
- Sciences - 3 courses
- Social Sciences - 2 courses (including 1 course in US History)
- World Languages - 2 courses (in a single language)
- Electives - 2 courses (from the above subjects or from the Arts & Humanities or Computer Sciences)

These are **minimum requirements** for admission, and eligibility does not guarantee admission.

## **Academic Information - Requirements and Eligibility**

### **Credits Required for Promotion and Graduation**

#### **Freshmen: Class of ~~2020~~-2021**

134 credits are required for graduation.

Each freshman student must earn thirty (30) credits to include successful completion of freshman English, before being promoted to the sophomore year and assigned to a sophomore homeroom.

#### **Sophomores: Class of ~~2019~~-2020**

134 credits are required for graduation.

Each sophomore student must have earned a minimum of sixty (60) credits, to include successful completion of sophomore English, before being promoted to the junior year and assigned to a junior homeroom.

#### **Juniors: Class of ~~2018~~-2019**

134 credits are required for graduation.

Each junior student must have earned a minimum of ninety-four (94) credits to include successful completion of Junior English before being promoted to the senior year and assigned to a senior homeroom.

#### **Seniors: Class of ~~2017~~-2018**

134 credits are required for graduation.

Each senior must have earned 134 credits to include successful completion of required subjects in order to participate in the graduation or be awarded a diploma from Watertown High School.

## School-to-Career

School-to-Career creates partnerships between schools, businesses and colleges, to help prepare today's students for tomorrow's careers in the fast changing and increasingly competitive global economy.

School-to-Career will combine several elements:

- Career awareness, exploration and counseling services
- A series of courses including all core academic courses that will focus on specific "career pathways". Watertown's School-to-Career Partnership has implemented seven career strands:

~~Financial Services (banking, insurance, investing, accounting, etc.)~~

~~Health and Hospitals Public and Human Services~~

~~Food Service/Hospitality~~

~~Graphic Design/Web Design~~

~~Technology (Computer Applications, Engineering)~~

~~Woodworking/Carpentry~~

~~Television/Radio Production~~

Radio and Television Broadcasting

Design and Visual Communications

Graphic Communications

Marketing

Business Technology

Carpentry and Cabinetmaking

Early Education and Care

Culinary Arts

Hospitality Management

Information Support Services and Networking

Programming and Web Development

Biotechnology

Engineering Technology

- Opportunities for internships, job shadowing, mentoring, and on-the-job training for students
- University, college, junior college and technical school programs for extended education and training beyond high school

School-to-Career is for ALL students.

- Make informed choices regarding career pursuits and further education.
- Choose the right courses in high school to prepare for a career and use what you learn in school in real work situations.
- Explore the world of work and learn from on-the-job experiences.

## Decile Standing

Grade point average at Watertown High School is a weighted average which includes Advanced Placement, Honors, Level 1 and Level 2 courses in English, Math, Social Studies, Science, World Language, Art, Computer Science, Health, Physical Education, and all Career and Technical Education courses. Pass/Fail courses, Summer

School courses, unlevelled courses and courses taken at institutions other than Watertown High School are not included in the GPA. Virtual High School courses (VHS) are included in GPA using levels L1, Honors, and Advanced Placement.

Decile standing is computed at the end of junior year and after the third term of senior year. The cumulative, weighted GPA is calculated using term grades from each of the four quarters. WHS gives students a standard 4.0 - based GPA. There will not be any conversion of grades from schools other than Watertown High School in the calculation of decile standing. In order to be calculated and reported, students must have attended WHS a minimum of five quarters and have accumulated a minimum of twenty term grades to be eligible for decile standing status. Decile 1 is the highest decile.

The Principal selects the Class Valedictorian and Salutatorian after the **final class rank GPA is calculated following the close of grades for third term of the student's senior year.**

#### 4.0 Grading Scale

A+ 4.3	B+ 3.3	C+ 2.3	D+ 1.3	F 0.0
A 4.0	B 3.0	C 2.0	D 1.0	
A- 3.7	B- 2.7	C- 1.7	D- 0.7	

## **Progress Report**

A student receives a mid-term progress report **at as of** the 5<sup>th</sup> week of each marking period. An academic standard of high passing, passing, barely passing or failing and an attendance report are indicated on this report.

## **Report Card — Marking**

Four times each year a student receives a report card that indicates in letter grades his/her official standing in the courses he/she is taking.

#### ***Marks***

A+, A, A-	Exceeds Standards
B+, B, B-	Meets Standards
C+, C, C-	Meets Minimum Competencies
D+, D, D-	Unsatisfactory, Low pass
F	Failing
INC	Incomplete
P	Passing
S	Satisfactory
U	Unsatisfactory, Low Pass
W	Withdrew (student withdrew from course)
Z	Student is new to class

In addition, comments are given by each subject teacher to aid in understanding the letter grade.

#### **Report Card Error**

Report card errors should be reported to the teacher involved. Usually, a teacher can correct an incorrect grade at the next marking period. However, a grade correction form may be obtained in the Guidance Office and, when signed by the appropriate teacher and the Principal, a grade can be changed immediately.

## Academic Recognition

### ***High Honor Roll***

The student must carry a minimum of 30 credits in subjects producing letter grades, A, B, C, D or S, and receive no grade below an A-, except in one subject, which may be a B+, B or B-.

### ***Honor Roll***

The student must carry a minimum of 30 credits in subjects producing letter grades, A, B, C, D or S, and receive no grade below B-.

The Honor Roll is announced at the end of each term for those students who have demonstrated high scholastic performance.

## Plagiarism

**Plagiarism** is defined as the act of presenting someone else's words and/or ideas as your own, even if done unintentionally. Any student who quotes directly from any source or makes use of an idea from any source and does not credit the author of that source, who copies part or all of the work of another student, or who allows part or all of his/her work to be copied by another student, will be considered to have plagiarized. Information taken from the Internet or other electronic media without crediting the source is also a form of plagiarism. Students must credit all sources that provide useful information and enclose any word or words directly taken from a source within quotation marks. Failure to do so is a dishonorable act; academic theft in an academic institution is a serious matter and, as such, has serious consequences. A student found guilty of plagiarism may receive a grade of zero on the project, may have his course level lowered, and may also forfeit membership in the National Honor and/or Cum Laude Society. Other consequences, such as a letter of reprimand in the student's file, exclusion from consideration for academic honors, or notations on college recommendations may also follow from an incidence of plagiarism.

Students and faculty should follow guidelines consistent with those of the Modern Language Association (MLA) (such as the *MLA Guide to Documentation*), our single school-wide standard. These guidelines are available from classroom teachers and departments, the school library, as well as on the Watertown High School Library's web page (<http://www.watertown.k12.ma.us/whs/library/lib/citations.html>).

In addition to the above paragraphs, in the World Language classrooms, plagiarism is also defined by:

- using online translating services (such as google translator)
- Peer editing
  - Appropriate peer editing is helping a peer by pointing out errors (ie, underlining/circling incorrect tenses, incorrect agreement, incorrect vocabulary, etc.)
  - Peer editing becomes plagiarism when peers point out errors AND make corrections. This is plagiarism because once the errors are corrected, it is no longer your own work.

## Level Placements

### **AP (Advanced Placement) Level Courses**

Advanced Placement courses will be significantly more demanding than Honors classes. Students and parents should consider an Advanced Placement class as a college course with the volume of work, depth of ideas, and

pace of discussion and assignments equal to what students will find in college or university courses. Students who take Advanced Placement courses must accept the challenge of very demanding work all year, and are expected to take the AP exam in May as the appropriate conclusion to their efforts. Due to the amount of work required outside of class in these college-level courses, students are strongly encouraged to take no more than three AP courses in a single academic year.

**Although each department will have criteria and standards unique to the discipline area, all departments at a minimum, will use the following common criteria:**

- Teacher/coordinator recommendation
- B or better in Honors level courses
- Standardized test scores
- Student motivation to accomplish college level work

### **Honors Level Courses**

Honors level courses are designed to provide intensive instruction to students who have demonstrated a strong level of achievement and interest in studying a subject in depth and pursuing individual projects.

Common eligibility criteria for honors course participation in all departments include:

- Teacher/coordinator recommendation
- B or better in comparable level courses; A- or better to move from Level 1 to Honors
- Standardized test scores
- Strong student motivation

To maintain participation eligibility for a future honors course, students must obtain a grade of B or better in the subject area. If a student's grade level drops below a B- during the year, an individual conference with student, parents, and teacher may be scheduled to reconsider placement.

## **Independent Study**

Independent Study is an option for students within each subject area based on the availability and interest of a teacher to voluntarily assume this additional assignment. Student and teacher must complete the independent study application to determine the work to be done and the times they will meet. All applications are reviewed by the Curriculum Coordinator/Director who makes recommendations to the Principal. The Principal determines the number of credits to be earned as well as the course level.

Participants in the program may do some work off campus in such places as public libraries, or colleges, or universities that are willing to assist and, in fact, some work may be done at home. It is assumed that parents and teachers who know the student well will be supportive with written recommendations when asked.

## **Virtual High School**

Online courses are offered for credit through Virtual High School, Inc. Sophomores, Juniors and Seniors in good academic standing (B- average or higher) are eligible to take electives and AP courses for 1 or 2 semesters. Unlike traditional classes, VHS courses are conducted entirely online through the internet. Readings, assignments and tests are accessed through a web browser, and class work will be performed at school and at home.

This innovative approach to teaching and learning requires self-motivation and discipline on the part of the student, and teacher recommendations to this effect are required when applying to take a VHS course. For more information and a list of VHS courses offered through Watertown High School, please consult:

<http://www.govhs.org>. Applications may be obtained from, and must be returned to, the Guidance office.

## **Student Classroom/Lab Assistant Program**

Students may choose to volunteer their services in various activities around the school rather than attend study periods. They will receive 0.5 academic credits for each period they volunteer. The credits earned in this manner are not included as part of the 36 credits per year that students must earn at Watertown High School. To enroll in this program, students must speak to their guidance counselors. This program may not be available in all curriculum areas. Aide courses are graded as pass/fail.

## Outside School Programs

### **H9500 Transitions to Work Program**

(Prerequisite: Referral from Teacher and/or Guidance Counselor, approval of the program's coordinator and the final approval of the Principal) Watertown High School recognizes and acknowledges the necessity for all students to be given the opportunity to gain awareness and understanding of the world of work while developing appropriate work behaviors, social and life skills. A job coach will be provided to assist student transition and the move toward the world of employment. Identification of the students is based upon referrals from teachers and/or guidance counselor, approval of the program's coordinator, and the final approval by the Principal. The community-based employers greatly enhance the experiences of all students to develop skills that will lead to more successful transition into the world of work. This program is incorporated into the student's overall schedule and requires 18 to 20 hours of work weekly to earn them 6 credits per year. Requirements may include weekly meetings with the coordinator or job coach; an in-house internship to prepare the student to transition into the workforce; submission of weekly pay stubs; signing out daily on the sheet provided in room 222; quarterly performance evaluations to assess students' progress; a midterm and year-end graded project; development of a program newsletter as part of the student's evaluation.

**Full Year: 6 credits**

## Community Service

The Community Service Program combines educational experiences beyond the classroom with valuable contributions to social agencies and schools. The placements of students include work in hospitals, mental clinics, workshops and recreation for the developmentally delayed, nursery schools, elementary and junior high schools, nursing homes, and special education and library work in Watertown as well as neighboring communities. In these placements, students may be assigned to individuals, groups or hospital wards. Each student must complete 36 hours of community service to graduate. Community service hours must be approved by the Community Service Coordinator and require forms submitted.

## Guidance Program

### **Mission Statement\***

*The Watertown High School counselors develop and deliver counseling programs and services that provide all students with the requisite knowledge and skills for success in the academic/technical, workplace readiness, and personal/social domains.*

### **Goal 1: Academic/Technical Achievement:**

*In order to improve student achievement and promote a commitment to lifelong learning for all students, school counselors will provide programs, classroom-based interventions and group and/or individual counseling that:*

- Objective 1:** focus on the development of attitudes, knowledge and skills necessary for success in higher education, the workplace and other post-secondary options.
- Objective 2:** use district/school data to design and deliver counseling programs and services.
- Objective 3:** are informed by participation on school improvement teams and the development of school improvement plans.

**Goal 2: Workplace Readiness/Career Planning:** *To promote in all students a sense of purpose and an understanding of their unique interests, strengths and limitations, school counselors will provide programs, classroom-based interventions and group and/or individual counseling that:*

- Objective 1:** assist student in making well-informed postsecondary decisions and plans.
- Objective 2:** focus on integrating academic, technical and employability skill development.

**Goal 3: Personal and Social Development:** *To promote the positive personal and social development of all students within a safe learning environment, school counselors will provide programs, classroom-based interventions and group and/or individual counseling that allow students to:*

- Objective 1:** feel supported and safe at school
- Objective 2:** develop interpersonal skills for positive social interactions
- Objective 3:** understand their personal strengths and challenges.

**Goal 4: Partnerships:** *To Strengthen and expand home-school-community partnerships so that student learning is supported and improved, school counselors will:*

- Objective 1:** facilitate and initiate communication with parents and the community at large.
- Objective 2:** provide parent education and information opportunities.
- Objective 4:** act as student advocates and collaborate with teachers, parents and administrators to improve student achievement.

The Watertown High School Guidance Department addresses these goals through a variety of direct and indirect services. The activities listed below are generally delivered in small group settings (Guidance classes or Advisory) and are provided to students each year. Workshops are typically offered in the Career Center and are publicized through student email and newsletters. In addition, counselors are responsible for the on-going monitoring of student progress through progress reports, report cards, attendance records, discipline records, and teacher feedback. Counselors are available to students and parents for individual meetings about academic, social/emotional, and career/college issues throughout the year.

*\*Based upon the Massachusetts Model for Comprehensive School Counseling Programs*

	Goal #1 (Academic/ Technical Achievement)	Goal #2 (Workplace Readiness/Career Planning)	Goal #3 (Personal & Social Development)	Goal #4 (Partnerships)
9 <sup>th</sup> Grade Classes	x		x	
10 <sup>th</sup> Grade Guidance Classes	x	x		
11 <sup>th</sup> Grade Guidance Classes	x	x		
12 <sup>th</sup> Grade Guidance Classes	x	x		
Individual Senior Meetings	x	x	x	

Individual Junior Meetings	x	x	x	
Senior Parent Night	x	x		x
Junior College Planning Night	x	x		x
College & Career Fair (all grades)	x	x		x
Financial Aid Night (11 <sup>th</sup> & 12 <sup>th</sup> )		x		x
SAT Administration (11 <sup>th</sup> & 12 <sup>th</sup> )		x		
PSAT Administration (10 <sup>th</sup> & 11 <sup>th</sup> )		x		
AP Administration (10 <sup>th</sup> -12 <sup>th</sup> )		x		
Career Chats (all grades)	x	x		x
Mock Interviews (all grades)	x	x		x
Application Workshops (12 <sup>th</sup> )		x		
College Representative Chats (11 <sup>th</sup> & 12 <sup>th</sup> )	x	x		x
College Visits (11 <sup>th</sup> & 12 <sup>th</sup> )	x	x		x
Guidance Night (all grades)	x	x	x	x
Rotary Student Speaker Program (12 <sup>th</sup> )		x	x	x
RYLA and HOBY (Youth Leadership programs; 10 <sup>th</sup> )	x		x	x
WCF Internship Program (all grades)	x		x	x
Scholarship Opportunities (11 <sup>th</sup> & 12 <sup>th</sup> )				x
Naviance (10 <sup>th</sup> -12 <sup>th</sup> )	x	x	x	

Simply Seniors (newsletter)	x	x	x	x
Just for Juniors (newsletter)	x	x	x	x
Parent Newsletter	x	x	x	
Advisory (9 <sup>th</sup> -11 <sup>th</sup> )	x	x	x	x
Course Selection Meetings (9 <sup>th</sup> -11 <sup>th</sup> )	x		x	

The Career Center, housed in the Guidance office, is available to students throughout the day on a drop-in basis and for special events like college representative visits, career chats, More than Words office hours, and workshops.

## **Interdepartmental Studies (IDS)**

IDS has been a part of Watertown High School since 1980. IDS is a WHS student-run organization dedicated to the principles of student democracy, student leadership, and community. IDS members attend Town Meetings, and must maintain good standards of behavior and responsibility. Town Meetings are called when needed and IDS members are excused from their classes to attend it. At Town Meeting, students discuss and vote on proposals put forth by the membership.

At the beginning of each year, four students are elected by the entire membership of IDS to serve on the Leadership Committee. Their work includes planning and running Town Meetings, resolving issues of fairness, and developing proposals to be voted on by the IDS membership.

The IDS Commons Room (Room 324) is a place where members can study, do homework, eat lunch with each other, and develop new friendships. IDS is open to all students grades 9 - 12. To join IDS students must sign a contract agreeing to attend Town meetings, sign up for an IDS job, and obey the rules of IDS and WHS. The primary rule of IDS is that everyone must respect each other.

“IDS has been the most supportive and influential community that I have ever been a part of. I honestly believe that if I had not taken the opportunity to join IDS, these past four years of high school would have been very difficult for me. It was a smart decision to join, as I was able to meet all kinds of people, get involved in all sorts of activities, and really feel that I was doing something good for this school and community.”

Cassandra Katsiasficas, Class of 2004

“I found IDS to be a welcoming and safe place to develop as a high school student and into the person I know I’m going to become. Leigh Downes, Class of 2004“As an underclassman, I felt that IDS was a great place to make friends with other underclassmen and upperclassmen as well. The ridge that usually exists between upper and underclassmen did not exist in IDS.”

Amy McCauley, Class of 2003

## **Library Media Services**

Library media skills are taught to students in grades 9 through 12 during subject specific classes. Lessons developed by Department of Libraries and Instructional Technology are designed to ensure that learners advance in their ability to recognize the need for information and the ability to successfully locate, analyze, and use that information. The library program at Watertown High School teaches students information literacy in a program that is designed to also promote intellectual growth and critical thinking. Information literacy objectives are addressed each year of high school. Skills are developed in the freshman year and an advanced level of competency is achieved by the end of the senior year. Through the use of library media materials, a student acquires and strengthens skills in reading, observing, listening and communicating ideas.

The library facility as resource center, stimulates and encourages intellectual activity with a focus on reference and research skills both within the library and online. To this end, first priority is given to teaching the methods and processes of research to groups, with individual assistance given during students’ free time. Students are encouraged to come to the library media center at the beginning of their study periods and before and after school to work on school related assignments or select reading material. With the addition of the Fab Lab, there are even more resources and chances for students to think critically, utilize their creativity, communicate and collaborate. We are now offering two courses in the library media program.

# Course Offerings

**A final decision to offer any course at Watertown High School is based on student enrollment and budgetary considerations.**

## Advisory

### **A009 Freshman Advisory Course Description**

All freshmen are enrolled in the advisory program as part of their transition to the high school. Students meet with the same advisor and student grouping once per cycle throughout the school year. The Freshman Advisory Program is centered on understanding of the core value REACH (Respect, Empower, Achieve, Create, and Honor). Students explore these terms through team-building and other activities that enable them to develop personal definitions. Also students learn about the expectations of the high school and how to set positive academic and personal goals. In addition, students review earlier concepts of bullying and bystander behaviors.

**Full Year: 1 credit**

### **A010 Sophomore Advisory Course Description**

The Sophomore Advisory is a continuation of the freshman program and is for all sophomores; students continue with the same student group, peer leaders and Advisor from their freshman year. While sophomores understand the routine and expectations of the high school, they continue to explore the foundation concepts of REACH especially as a way to reach out into the school and wider communities. Throughout the year students engage in problem-solving activities intended to promote cooperation, communication, and reflection. In addition the course provides students with further review of issues of bullying and safety. Advisory groups plan and carry out a community service project in the spring.

**Full Year: 1 credit**

### **A011 Junior Advisory Course Description**

Junior advisory is a course for all eleventh grade students to help them plan for their senior year, as well as to start thinking about options after graduation. Senior year can be overwhelming for students trying to meet all of the necessary deadlines and requirements. Junior advisory is designed to explain some of these requirements and allow students to plan and complete as much as possible, so that the senior year will be less stressful. The curriculum is geared to have juniors investigate what they could be preparing in order to be ready for life after high school.

**Full Year: 1 credit**

## REACH OUT Mentoring

### **H9901 REACH OUT Mentoring**

REACH OUT Mentoring is for students who are interested in providing mentorship to students at Watertown High School. This could include students who are new to WHS, 9th graders who are struggling in the transition to high school, students who feel isolated, alone or have few friends, and students in our special education or ESL classrooms who need social skills support and experiences. REACH OUT mentors are self-motivated, cooperative, confident and have the ability to connect with others. REACH OUT mentors are open to a variety of activities, willing to take the lead and enjoy being engaged with the WHS community.

**Semester: 3 credits**

## English Language Arts

**The MISSION of the Watertown High School English Language Arts Department is to motivate students to develop an appreciation for human experience through exposure to literature of all kinds; to encourage them to think independently and analytically; to aid them in strengthening their skills of self-expression, both written and oral; and to assist them in building an understanding of the history and structure of the English language.**

All WHS students are required to pass four years of English. Grade 9 students enroll in an unlevleed English class; 10th grade students have college preparatory and honors options; 11th grade students have college preparatory, honors and AP options; 12th grade students can choose from a range of college preparatory options, humanities honors and AP. All courses and their respective requirements are described below. In addition to the four year requirement the ELA Department offers two elective courses, MCAS Preparation (10) and Journalism and Community Media (9, 10, 11, and 12). Programs are developed around a core curriculum that leads the student through a gradual progression of study in literature and language. Learners are presented with opportunities tailored to their needs and abilities that will develop their appreciation and understanding of literature, increase their communication skills and assist in their growth as critical thinkers. A student's skills are strengthened by careful study of sentence structure and style, by examination of theme and form in literature and by constant exploration of language. Through guidance and practice, every student should gain confidence and skill in the art of communication.

Prior to choosing the appropriate course level such as AP, Honors, or Level I, students are advised to seek the counsel of teachers, guidance counselors and family members. Choice of level involves a number of criteria: aptitude as well as achievement, teacher recommendation, student motivation, and future planning. While it is true that students from all levels continue their education at two and four-year institutions, those who seek acceptance at competitive four-year institutions should elect the most challenging programs suitable to their abilities. Students who plan to elect Honors or AP courses must exhibit seriousness of purpose and excellent grades in their current levels of study if they expect to receive the necessary recommendations of their teachers.

### **Admission to Honors/AP English Classes**

Students interested in enrolling in honors and AP courses in the English department must possess a strong interest in English, a strong work ethic and commitment to excellence, strong participation and classroom citizenship, and clear evidence of high achievement in prior English coursework. Students must meet the following requirements specific to their current placement:

- **High-school Students in Level-One Course Seeking Admission to Honors**
  - Grade A- or better in current level-one course\*
  - Strong recommendation of current English teacher
  - Writing sample (administered and collected in school) as needed
  
- **Students Currently in an Honors Class Seeking to Continue in Honors**
  - Grade of B or better in current Honors English class\*
  - Strong recommendation of their Honors English teacher
  - Writing sample (administered and collected in school) as needed

- **Students Currently in an Honors Class Seeking to Enroll in AP**
  - Grade of A- or better in current English Honors class\*
  - Strong recommendation of current Honors English teacher
  - Writing sample (administered and collected in school) as needed
  
- **Students Currently in an AP English Class Seeking to Enroll in Next AP Class**
  - Grade of B or better in current AP English class\*
  - Strong recommendation of current AP English teacher
  - Writing sample (administered and collected in school) as needed

*\*Grades will be calculated based on the average of the first two terms as well as the midyear exam grade. Students whose grades qualify them for consideration after the first two terms need to maintain the required average through the fourth term for final approval of enrollment. Students who do not receive a recommendation by the criteria listed above may set up an appointment with their teacher and the English coordinator to appeal the decision.*

### **Summer Reading**

All English courses have a required summer reading component. Summer reading is evaluated in all grades and at all levels during the first term of school in September. Students may get the summer reading assignment from their teachers in June, or they may find the list on the English website beginning in June. Honors and AP students who do not have the summer assignment prepared fully on the first day their English class meets may be moved to level-one classes at the discretion of the teacher and English coordinator.

## **Freshman English Course**

### **H1030 English 9 Literature and Composition (Unleveled)**

The design of the course provides rigor and structure while fostering students' transition to high school reading and writing expectations. The course utilizes the four basic genres of literature: the novel, the short story, drama and poetry. Writing assignments include narration, description, persuasion, exposition, analysis and summary with a focus on essay composition. Readings include *Romeo and Juliet*, *Lord of the Flies*, *To Kill a Mockingbird* and *Oedipus the King*. In addition, students are required to read independently novels of their own choosing. Much attention will be given to both oral and written communication skills. Summer reading is required.

**Full Year: 6 credits**

## **Sophomore English Courses**

### **H1200 Honors English 10**

(Prerequisite – See admission section above.) Sophomore Honors English will focus on an intensive introductory survey of World Literature. Students will be introduced to a variety of literary time periods as well as reading selections from around the globe. The course may be structured around several essential themes such as Foundations of Cultural Beliefs, Genocide, Intolerance, Coming of Age and Cultural Identities; or may be organized from a geographical standpoint. Readings will be chosen to complement the essential questions generated by either approach. Writing activities focused on literary analysis will augment the readings and demonstrate learning and understanding. A research project is required. Summer reading is required.

**Full Year: 6 credits**

### **H1210 English 10**

Sophomore College Prep English is a challenging course of study involving an introductory survey of World Literature. Readings may be based upon a series of thematic units such as Cultural Beliefs, Cultural Identities, and Coming of Age or may be organized from a geographical standpoint. These units will focus on making

connections between and among the various elements of a student's knowledge base. Writing assignments focused on literary analysis will supplement the readings and demonstrate an understanding of global issues. A short research assignment is required. Summer reading is required.

**Full Year: 6 credits**

## **Junior English Courses**

### **H1400 AP Literature and Composition**

(Prerequisite – See admission section above.) Advanced Placement English is a strenuous course of study designed to give self-motivated students a college experience in the areas of literature and composition prior to their graduation from high school. The course is demanding in the amount and variety of assigned reading. In addition, students will be expected to meet the challenges of a writing program that emphasizes close literary analysis. In order to be accepted into the AP junior course, students must have earned an A- or better in their 10th grade honors ELA class. Please refer to the admission guidelines above for additional information. The Curriculum Coordinator reserves the right to approve or deny admittance into this select program. Students who take this course must accept the challenge of very demanding work all year and are expected to take the AP exam in May as the appropriate conclusion to their efforts. As a culminating assessment for the course, students conduct research of primary and secondary source materials in support of an original, student-generated argument. Summer reading and assignments are required.

**Full Year: 6 credits**

### **H1300 Honors English 11**

(Prerequisite – See admission section above.) Junior Honors English is a course designed for highly motivated students who exhibit an interest in the analysis of literature and language. It will stress thematic units through an historical survey of American literature, focusing on works from the following periods: Puritanism, Reason and Revolution, Romanticism, Realism and Naturalism, the Twenties and Thirties and the Modern Era. The works of Hawthorne, Williams, Fitzgerald, Hurston, Miller, and others will be highlighted. SAT review is included. A research paper and summer reading are required.

**Full Year: 6 credits**

### **H1310 English 11**

English 1310 is a course designed to provide students with an in-depth analysis of literature and language. Literature is approached chronologically, focusing on the works of major authors from the following literary periods: Puritanism, Reason and Revolution, Romanticism, Realism and Naturalism, the Twenties and Thirties and the Modern Era. Students will complete an SAT review that includes timed writing prompts, reading comprehension strategies, grammatical usage and vocabulary. Readings may include *The Crucible*, *The Red Badge of Courage*, *The Great Gatsby*, *The Adventures of Huckleberry Finn*, *The Color Purple*, *Macbeth*, *Our Town*, and *The Glass Menagerie*. A research paper and summer reading are required.

**Full Year: 6 credits**

## **Senior English Courses (AP and Honors students select one yearlong course)**

In addition to their Honors or AP ELA class, students are welcome to select one of the second semester courses listed below.

### **H1330 AP Language and Composition**

(Prerequisite – See admission section above.) This course is designed to challenge student's critical thinking and writing skills. Developing good habits of mind, as well as cultivating a disciplined and mature writing style, are the ultimate goals of the course. Students engage in a variety of formal writing tasks, exploring multiple forms and genres in writing. Students also write informally, maintaining journals, "text says/does" analyses, imitative

responses, annotative passages, and self-reflections. Additionally, students are introduced to the concept of visual argument, how to read images with, or in lieu of text, and the effect that graphics and visual images have in American society. Students will study both nonfiction and fiction texts. The course progresses over the first two quarters from an introduction to rhetoric to essays of analysis and argument, and then on to a study of synthesis and visual argument in the third quarter. Interspersed throughout the second and third quarters is preparation for the AP exam. A senior thesis is required.

**Full Year: 6 credits**

### **H1560 Honors Humanities**

(Prerequisite – See honors admission section above.) The Humanities course offers students an opportunity to consider various forms of artistic expression and analyze them critically. They will examine film, literature, the visual arts and philosophy, among other mediums, exploring the many ways artists convey meaning. Students will also investigate differing artistic techniques to discover how these contribute to the overall significance of a work. Intensely motivated students may apply to take Humanities for honors credit. They should see the Humanities teachers for details. Summer reading is required. A senior thesis is required.

**Full Year: 6 credits**

## **Senior English Courses**

**(Research and the Real World is the Fall Semester ELA course for seniors. Choose at least one of the Spring Semester options below.)**

### **Fall Semester:**

**H1603 Research and the Real World**— All L1 students will take this one semester course. Units include: the literary research paper also known as the senior thesis paper; a student-devised, teacher approved independent research project and presentation to peers; business communications; advertising and persuasion; “looking at the world” and personal statement. For the Independent Research Project students create a proposal, action plan and timeline for a research topic of their own choosing beginning with the notion that the topic is something their peers need to know as they enter the world of adults. For the Business Communications Unit each student will create his/her own resume and cover letter, write business-appropriate emails, conduct mock job interviews and be interviewed in turn. In the Advertising/Persuasion Unit students will study a series of famous and infamous advertising campaigns, analyzing the persuasive techniques employed in each. The culmination of the unit will be student-created advertising campaigns for both video and print mediums. The “Looking at the World” unit centers on the use of articles, images and news stories to promulgate structured class discussion with students leading the discussions.

**Semester Course: 3 credits**

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**Spring Semester:** L1 students must choose at least one of the following, but may choose more than one if so inclined. Honors and AP students are also invited to select a course if they so choose one beyond their year-long AP or honors ELA class.

**H1613 Comedy in Literature, Film and Pop Culture:** This course is inspired by MIT’s Open Campus Comedy course and looks briefly at the history of comedy, starting with Aristophanes and then examines it as a genre in drama, novels, film and television. As we examine various examples we’ll note how comedy has remained constant and how laughter and mockery are used as tools to address and correct social and political ills. We’ll look at observational humor and commentary, wordplay and wit, farce, gender roles and identity. Texts may

include: Aristophanes' *Lysistrata* and Billy Wilder's *Some Like it Hot*; Shakespeare's *The Taming of the Shrew* and Gil Junger's *10 Things I Hate About You*; John Kennedy Toole's *A Confederacy of Dunces*, writings by Kurt Vonnegut, David Sedaris and others. Television includes: *Saturday Night Live*, *The Daily Show*, *Seinfeld*, *The Simpsons* and others.

**H1623 Creative Writing:** This course is designed for students interested in writing to hone their skills as writers, express their creativity and publish/present their work. It will expose students to a variety of writing genres and require them to understand, analyze, imitate and then produce pieces of writing that conform to these genres. The writing process (multiple drafts, revision and editing) will be emphasized, as will be teacher, peer and self-critique. Students will write, revise, critique, cull and present/publish their own creative works while being exposed to a variety of genres, authors and styles through reading, discussion and analysis. Genres include: literary non-fiction, the short story, poetry, personal essay and drama.

**Semester Course: 3 credits**

**H1633 Film and Media Studies:** From the films we watch to the personal profiles we maintain online, media saturates our lives, yet how often and how deeply do we question what we see and what we say? This course is designed to be a survey of media technologies and environments, combining course readings with film and other visual media screening. The concepts introduced in the course require students to critically approach the visual culture around them. Students learn to respond to film and media as proactive, critical, and articulate viewers and consumers. Students also acquire the vocabulary, conceptual strategies, and interpretive skills necessary to closely analyze the form and content of film and media.

**Half Year: 3 credits**

**H1643 Sports in Literature:** Sports is a multi-billion dollar segment of the US economy, with some seeing it as mere modern distraction of the "Bread and Circuses" variety. But it is also something in which we invest ourselves deeply and can transcend the field of play. The literature of sports is no different; it's a genre in which authors carefully and subtly explore a multiplicity of issues about individuals and their place in the greater world. Texts may include: Bernard Malamud's *The Natural*, Bissinger's *Friday Night Lights*, Nick Hornby's *Fever Pitch*, select articles and essays from the anthology *Sports in Literature* as well as news articles and film.

**Semester Course: 3 credits**

**H1653 Science Fiction- Utopias and Dystopias:** Utopian and dystopian literature often examines the line between perfection and oppression. In this course students explore how, why and to what effect authors and filmmakers construct utopian and dystopian works. Coursework includes the identification, discussion and written analysis of the underlying rules, laws, and ideologies, gender roles, religions, and technologies within the societies they examine. Texts include: *Herland*, *The Handmaid's Tale*, *Brave New World*, *The Hunger Games*, *V is for Vendetta* among others.

**Semester Course: 3 credits**

**H1663 War Stories:** Given its perennial and pervasive presence in the world, war **if** is often the subject of great writing. In this course, you will read a variety of primary source articles, essays, poems, and novels including Stephen Crane's *The Red Badge of Courage*, Eric Maria Remarque's *All Quiet on the Western Front* and Tim O'Brien's *The Things They Carried*, or *Going After Cacciato*. When appropriate, we will look at passages from soldier's diaries, documentaries and film.

**Semester Course: 3 credits**

## **Transitional English**

### **H1580 Transitional English (Grades 9-12)**

Designed for the student who is ready to leave the ESL program but not yet ready for total immersion into the

mainstreamed English curriculum, Transitional English will be offered to all qualified Watertown High School students. This course will emphasize basic skills to increase fluency in written and spoken English. It is also designed to provide students with acculturation experiences to ease the often-difficult transition period. The recommendation for Transitional English is made through the WHS ESL Department.

**Full Year: 6 credits**

### **English Department Elective Offerings**

#### **H3615 MCAS Preparation (Grade 10) (Unleveled)**

This course provides a review of fundamental skills and concepts required to pass the MCAS examinations in English and mathematics that are required for graduation. Students will increase their reading comprehension and essay composition skills through structured exercises. Enrollment in the course is limited to students who have not yet taken the 10<sup>th</sup> grade MCAS exam.

**Full Year: 3 credits for ELA**

#### **H1590 Journalism and Community Media L1 (9, 10, 11, 12)**

Students in this course will study, create, and publish journalism in all its forms -- digitally and in print -- for the benefit of the Watertown High School community. This class will use both classroom- and computer lab-based settings and focus on producing content for the *Raider Times* website and print editions. Students will serve in leadership roles, as well as reporters, editors, web and page designers, photographers, and artists. All students will work collaboratively and study the tools of journalism, such as interviewing, ethics, research, advertising, marketing, promotion, note-taking, scheduling, and, of course, writing. Course requirements will often times require work outside of school. This course is open to all students. No experience is necessary. This course is an excellent choice for students who want to explore and understand the world around them, and who want to better communicate their voice to a vast audience.

**Semester Course: 3 credits**

#### **Independent Study**

Students who work on the *Word Painter* publication and who would like to receive academic credit for their work should see the advisor of the publication and apply to the Principal for Independent Study credit.

<b>English Language Arts Sequence Chart Grades 9 – 12</b>				
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>Required – 6 Credits each year*</b>	English 9	English 10 H* English 10 L1	-AP-English Literature and Composition* -English 11 H* -English 11 L1	-AP-English Language and Composition* - H. Humanities* -Research and the Real World -Comedy in Literature, Film and Pop Culture -Creative Writing -Film and Media Studies -Sports in Literature -Science Fiction- Utopias and Dystopias -War Stories
<b>Required if teacher recommended</b>		MCAS Prep		
<b>Elective with teacher recommendation</b>	Transitional English**	Transitional English **	Transitional English**	Transitional English**

\* Enrollment in the honors/AP sections requires teacher’s approval and a grade requirement. See guidelines above.

\*\*This class is for ELLs - To register, students must have the recommendation of the ESL instructor and consult with the classroom teacher.

# Fine Arts

## Music – Drama – Visual Arts

All Fine Arts courses are Level 1, except those that are AP.

### Fine & Applied Arts Mission Statement:

The arts are an integral part of the human experience and, therefore, an essential component in the education of all people. They have equal value with all other intellectual and creative pursuits and enable us to celebrate and preserve our diverse cultural heritage. Students of the arts actively participate in and experience their learning, using all of their senses while discovering and developing their own unique intelligences and learning styles.

The mission of the Watertown Public Schools Fine Arts Program is to foster creative expression in students by providing the essential skills and knowledge necessary for those who wish to pursue a career in the arts. We also seek to create a sensitivity to and respect for the arts in all students, enhancing the quality of their lives and an understanding of the diversity of human expression in the global village in which we all live.

### Music Program

If a student experiences difficulty in fitting Band, Strings, and/or Chorus into his/her schedule, he/she should discuss options with the choral, strings, and/or band director. Once successfully completed, a course, with the exception of Chorus, String Ensemble and Concert Band, may not be repeated for credit.

#### **H7610 Chorus**

Students in Chorus have the opportunity to perform three and four parts in a variety of styles. Students are required to participate in all performances including concerts, school assemblies and functions, and community events. Part of the chorus experience will focus on vocal technique and sight reading.

**Full Year: 6 credits**

#### **H7510 Concert Band**

(Prerequisite: Middle School Band experience or approval of band director) Students have the opportunity to further develop their skills and techniques through the study of standard concert band literature. Students will also develop their skills through small ensemble performance. Students are required to participate in all performances, including day and evening concerts, assemblies, football games and rallies. Each quarter students will prepare and be graded on a piece of music. Students will be expected to perform in small groups, evaluating and critiquing each other's performance. Private study is recommended and encouraged.

**Full Year: 6 credits**

#### **H7550 String Ensemble**

(Prerequisite: Middle School String experience or approval of the string ensemble director based on audition) Students will explore literature from the classical and popular string repertoire while improving individual technical skills and group ensemble performance ability. Students are required to participate in all scheduled day or evening concerts throughout the school year. Students are evaluated on both individual ability and ensemble skills. Private study is strongly encouraged.

**Full Year: 6 credits**

#### **H7813 Electronic Music**

Open to any student interested in learning how to compose music using the electronic keyboard and the computer. Important topics will include the basics of notation, rhythm, scales, melodies, intervals, chords and ear training. Students will also learn about multi-track recording with sampled sounds using the keyboards and the computer. Some experience playing an instrument or singing would be helpful, but is not required.

**1<sup>st</sup> Semester Course: 3 credits**

### **H7833 Electronic Music II**

A continuation of Electronic Music with an emphasis on writing and arranging original compositions. Students will further develop composition skills using the keyboard/MIDI workstations.

**2<sup>nd</sup> Semester Course: 3 credits**

### **H7843 Guitar Workshop I**

Students will explore beginning to intermediate guitar playing. This course is for students who want to learn how to play the guitar and students who have already begun playing the guitar. Students will learn both finger style and flat picking styles. The course begins with open chords, note reading and basic strumming. Students will then learn moveable chords, and finger picking. Styles of guitar playing will include the blues, folk, rock and classical. Students will be expected to provide their own guitars and will practice and play during class on a daily basis.

**Semester Course: 3 credits**

### **H7853 Guitar Workshop II**

(Prerequisite: Guitar I or permission of instructor)

This course is designed for the intermediate to advanced guitarist and for students who have taken Guitar Workshop I. In this class students will become comfortable playing movable chords over the entire neck. Students will learn to play single notes using alternate picking and will begin to learn how to improvise using major and minor scales. We will explore the process of song-writing that will begin in small groups and will conclude by recording songs ~~on a multitrack tape recorder.~~ in garage band. Students will be expected to have their own guitar for home practice and will practice and play during class on a daily basis.

**Semester Course: 3 credits**

### **H7855 Song Writing Workshop**

(Prerequisites: must be able to play an instrument or have taken a semester of Guitar 1 or Electronic Music)

Song Writing Workshop will be offered to students who are interested in writing songs. Students will use the guitar or piano as the primary instrument to build a song, and they should have some skills on either instrument. Students will compose music and learn about song form, chord progressions, melodies, percussion, and music notation. Students will compose songs, and will record them on the computer using Garage Band and will also learn how to notate what they have written on the computer. A typical student composition would include chords and a melody with lyrics and would be sung, but other types of songs could be “all instrumental” for those who are not comfortable singing.

**Semester Course: 3 credits**

### **H7857 Rock Band Class**

(Prerequisites: Guitar 1, or student already plays an instrument)

Rock Band class is a course designed for students who want to learn songs and play them together in small groups. Students will learn how to do some playing by ear in jam sessions, learn how to play major and minor scales and how they help musicians improvise. Students should have their own instrument, although it is not essential. Students should already know how to play an instrument to take this class. There are many different instruments that would work in this class. Some of them are guitar, bass, drums, or piano/keyboard, and possibly wind instruments as well.

**Semester Course: 3 credits**

### **H7870 Reach Out Music**

Reach Out Music offers sophomores, juniors and seniors an opportunity to be peer mentors in the music setting. The class will offer a variety of music activities in an inclusion setting. The Reach Out Music class will incorporate singing, playing instruments, listening to music and creating music together. This is an opportunity for students to learn and grow together while working on communication skills, leadership skills, and social skills, all while participating in active music making.

### **Visual Arts Program**

Note: Once successfully completed, a course, with the exception of the Studio Art Class, may not be repeated for credit.

#### **H7013 Art I - 2D – Beginning Two-Dimensional Design**

This is an introductory drawing and painting class designed to provide students with a strong foundation in two-dimensional art. The elements and principles of design will be explored through hands on activities involving media such as pencil, colored pencil, pen and ink, watercolor and tempera paint. Art History and art criticism will be emphasized along with the creation of original works of art.

**Semester Course: 3 credits**

#### **H7023 Art II - 2D – Advanced Two-Dimensional Design**

(Prerequisite: Successful completion of Art I- 2D) Students will build upon concepts and techniques covered in Art I-2D through experiences with advanced materials and processes. Emphasis will be placed on individual development using a variety of media such as pastel, charcoal, conté crayon and acrylic or oil paint. Class critique as well as the study of Art History will be an important part of this course.

**Semester Course: 3 credits**

#### **H7113 Art I - 3D – Beginning Three-Dimensional Design**

This is an introductory sculpture and crafts course designed to provide students with a strong foundation in three-dimensional art. The basic concepts of form and space will be explored through hands on activities involving media such as plaster, wood, clay, wire, and cardboard. Art History and art criticism will be emphasized along with the creation of original works of art.

**Semester Course: 3 credits**

#### **H7005 Drawing I**

This is an introductory drawing class designed to provide students with a strong foundation in all approaches to the art of drawing. This includes drawing from observation, perspective drawing, illustration and the use of drawing in the design process. Drawing will be explored through project work involving media such as pencil, colored pencil, ink, pastel and collage. Looking at different styles of drawing, art critique and the creation of original works of art will help students develop their own unique style of drawing.

**Semester Course: 3 credits**

#### **H7007 Painting I**

This is an introductory painting class designed to provide students with a strong foundation in the art of painting. Media used in this course includes india ink, watercolor and acrylic paint. Topics include the use of composition, color, texture, form and value through still life, landscape, portrait, figure and master reproductions. Observing a variety of art movements throughout world history, class critiques and the creation of original works of art will

help students develop their own unique style of visual expression within the painting medium.

**Semester Course: 3 credits**

### **H7123 Art II - 3D – Advanced Three- Dimensional Design**

(Prerequisite: Successful completion of Art I-3D) Students will build upon concepts and techniques covered in Art I - 3D through experiences with advanced materials and processes. Emphasis will be placed on individual development using a variety of 3D materials, such as paris craft, foam core, and wood. Class critique as well as the study of Art History will be an important part of this course.

**Semester Course: 3 credits**

### **H7320 Studio Art**

(Prerequisite: the successful completion of 3 introductory level art courses and permission of the instructor is required) Studio Art is a course designed for motivated students who have already completed two full years of Art. For students considering a career in visual art or a design related field, this course will help them to develop a portfolio of their work. Projects will be completed in a wide variety of media in both two and three dimensions. Class work will be combined with a significant number of outside assignments. Students may be required to purchase some advanced art supplies. Successful completion of summer home assignments is required prior to enrollment in this course.

**Full Year: 6 credits**

### **H7330 AP Studio Art**

(Prerequisite: the successful completion of 3 introductory level art courses and permission of the instructor is required) AP Studio Art is an advanced studio course for college bound and career oriented art students. It is designed for motivated students who wish to pursue a college level course while still in high school. Students will compile a portfolio that will fulfill College Board requirements. For each hour of class time, students will be expected to work an equal amount of time outside of class to complete assignments. Successful completion of specific summer home assignments is required to earn Advanced Placement credit for this course.

**Full Year: 6 credits**

**Note: All photography courses will require students to buy their own black and white film.**

### **H7243 Photography - Digital Media I**

Photography-Digital Media I is a comprehensive course designed to introduce students to the art of analog black & white photography, digital photography, digital photo manipulation with Adobe Photoshop, web networking and the creation of online digital portfolios. Students will learn how to operate a manual 35mm single-lens reflex & digital SLR camera, develop negatives and prints, color manage, edit and format digital photos and produce high quality inkjet color prints. Students will post their photography to online networks, communicate and collaborate with other student photographers. This program will explore interactive media to design personalized web space for online portfolios. Other topics include photography history, examination of photography artists, stylistic genres and composition.

**Semester Course: 3 Credits**

### **H7253 Photography - Digital Media II**

*(Prerequisite: successful completion of Photography-Digital Media I or permission from the instructor )*

Photography - Digital Media II will build upon the technical and artistic concepts covered in Photography - Digital Media I. Emphasis will be placed on the development of a unique analog and digital portfolio that reflects the student's range of technique and personal style. Students will post their photography to online networks, communicate and collaborate with other student photographers and explore interactive media to design personalized web space for online portfolios. Students will produce high quality inkjet prints, examine creative

darkroom processes such as solarization, texture screens, multiple exposures and more. Students will be expected to produce and maintain a web based digital photo-journal throughout the duration of this course. Classroom and online critiques of student work and the study of contemporary photography will be an important part of this course.

**Semester Course: 3 Credits**

## **School-To-Career**

### **H7043 Graphic Design**

This course will introduce students to the basic concepts of graphic design on the computer. Hands on activities utilizing a variety of traditional graphic media will be combined with computer instruction and lab time. Desktop publishing software and graphic and photographic editing programs will be used to scan, import, generate, process and combine images and text.

To see examples of graphic design and other visual art projects created by WHS students, please visit the following URL: [www.watertown.k12.ma.us/dept/fapa/index.html](http://www.watertown.k12.ma.us/dept/fapa/index.html).

**Graphic Design Definition: The practice or profession of designing print or electronic forms of visual information, as for an advertisement, publication, or website.**

**Semester Course: 3 credits**

### **H7033 Graphics II/Web Design**

(Prerequisite: Any Level I visual arts foundation course, or permission from the instructor)

This course is an introduction to the art of web design. Using industry standard software to generate graphics, animation, and video, students will be challenged to create web pages that are interactive, functional and aesthetic. Students will be responsible for demonstrating their understanding of HTML, and Macromedia Dreamweaver when producing web pages. For the second half of the course, multimedia elements will be introduced and applied to class projects. Students will create storyboards, film, edit, and produce digital videos over the Internet. Students will also explore the art of animation while creating interactive environments for their web projects. More information can be found at <http://www.watertown.k12.ma.us>.

**Semester Course: 3 credits**

## **Educational Technology/Library**

### **H7773 Design Thinking: Using the Fab Lab to Create and Build**

Learn and experience how to make almost anything using the tools, software, and equipment in the FabLab. Students will be exposed to 2D and 3D software programs and will work with the 3D printers, the Laser Cutter, and the Vinyl Cutter among other tools. Students will use the design process to solve a problem affecting an individual, the community or the world.

**Semester Course: 3 Credits**

### **H7774 Student Help Desk**

In this novel student intern program you will participate in a hands on study of technology integration in an educational context. Students will be required to assess problem sets and define the best approach to addressing or solving the problem. In addition to solving problems for their classmates and teachers, students will be required to complete and maintain several running projects that address solutions in educational technology integration. The course also asks students to have some prior knowledge of google apps for education. Students will always work in partnership with another student. This is a semester class for juniors or seniors.

**Semester Course: 3 Credits**

## World Languages

**The World Language Department course offerings have been developed to encourage our students to become lifelong learners in today's global society. Along with learning a world language, the students will acquire knowledge of the contributions of diverse cultures while broadening their awareness of themselves and their world.**

An extensive program in world languages is open to all students. Recent research indicates that English vocabulary, reading skills, self-concept, cultural enrichment, creativity and communication skills are significantly improved by the study of world languages.

Most colleges give preference to students with extensive preparation in world languages from their secondary school. For all students, whether or not college-bound, some knowledge of world languages is helpful for work and career. ~~Although there is no World Language requirement for graduation,~~ most colleges and many private colleges ~~now~~ have a world language requirement ~~for entering students~~. It is highly recommended that ~~two to~~ four years of a high school world language be taken to prepare for the world language requirement at most colleges and to achieve language proficiency.

~~Based on current national standards, classes are expected to be conducted in the target language for at least 90% of class time. This includes teacher and student-talk time. Also based on current national standards, the general world language curriculum is focused on gaining proficiency in the five skills of language (listening, speaking, reading, writing, and culture) as well as in the three modes of communication (interpersonal, presentational, interpretive). The method used in all world language courses is a four skills approach. Attention is given to listening, speaking, reading, and writing the world language. Of equal importance with the outcomes for linguistic understanding is the emphasis on those outcomes that reflect an understanding of the culture of other people and other lands. When possible, classes are conducted in the target language.~~

~~The staff recognizes the benefit of cultural and career oriented guest speakers. Whenever possible, classes will take advantage of the multilingual Boston area through field trips.~~ The World Language Department encourages international travel and attempts periodically to organize trips and student exchanges to countries where the languages taught are spoken.

### World Languages Honors and Advanced Placement Criteria

These courses are designed to provide a more rigorous curriculum and increased research to students who have demonstrated a high level of achievement in studying world languages in depth. Eligibility criteria for honors course participation in a world language includes:

- a. Teacher recommendation ~~for~~ based on oral proficiency and motivation for study at an accelerated level.
- b. To enroll in ~~For~~ Spanish, Italian, or Arabic II Honors, a grade of A- or better in a first year, non-honors course of the language
- c. To move from a non-honors course to an honors or advanced placement course, a student must obtain a grade of A- or better\*
- d. To maintain eligibility to participate in honors courses, a student must obtain a grade of B or better. If a student drops below a B during the course of the year, an individual conference may be scheduled to reconsider placement.
- e. To move from an honors course to an advanced placement course, a student must obtain a grade of B or better. If a student drops below a B during the course of the year, an individual conference may be scheduled to reconsider placement.

- f. A writing sample and oral interview (administered and collected in school) will take place as needed.

*\*Grades will be calculated based on the average of the first two terms as well as the midyear exam grade. Students whose grades qualify them for consideration after the first two terms need to maintain the required average through the fourth term for final approval of enrollment. Students who do not receive a recommendation by the criteria listed above may set up an appointment with their teacher and the World Language coordinator to appeal the decision.*

## **Italian**

### **H2200 Italian I**

The first year course includes work in all phases of language learning: listening speaking, reading, and writing. Work in both the world language and computer laboratories is a part of each student's experience.

**Full Year: 6 credits**

### **H2250 Italian II**

This course continues the work of Italian I with more reading and writing. Audiovisual materials used the language laboratory are coordinated with the grammatical structures and reading in the classroom.

**Full Year: 6 credits**

### **H2240 Honors Italian II**

(Prerequisite: See Honors criteria above.)

This course continues the work of Italian I with more intensive reading and writing. Audiovisual materials used in the language laboratory are coordinated with the grammatical structures and reading in the classroom. This is the first course in the sequence which leads to Italian Advanced Placement in the fifth year.

**Full Year: 6 credits**

### **H2300 Italian III**

This course is designed for students who have shown exceptional interest and proficiency in Italian II. Reading assignments are given to develop facility in reading. Comprehension of spoken Italian is fostered by hearing a variety of native voices on audio recordings used in the language laboratory, along with videos and plays.

**Full Year: 6 credits**

### **H2310 Honors Italian III**

(Prerequisite: Successful completion of Italian II)

Basic grammatical structures are reviewed. Outside reading assignments are given to develop facility in reading. Comprehension of spoken Italian is fostered by a variety of native voices on tapes used in the language laboratory, videos and plays.

**Full Year: 6 credits**

### **H2350 Italian IV**

This course is designed to help students acquire greater facility in the four basic skills. Readings pertaining to culture, history and geography are presented. Audiovisual materials and the internet are used in the laboratory. An assessment of the students' oral skills is given at mid-year.

**Full Year: 6 credits**

### **H2340 Honors Italian IV**

(Prerequisite: See Honors criteria above)

Literary selections and films are studied to increase proficiency. Written and oral reports are required. An assessment of the students' oral skills is given at mid-year. The course equips the student with an excellent background to pursue advanced language study in college. This is the third course in the sequence which leads to Italian Advanced Placement in the fifth year. Summer reading is required.

**Full Year: 6 credits**

### **H2380 Honors Italian V**

(Prerequisite: See Honors criteria above)

In the Italian V Honors course students continue to become more proficient in listening, speaking, reading and writing in Italian in preparation for post high school college level work. Language acquisition at this level will include units on current events, history, culture, fables, legends, poetry, music, art and film. Work in both the language and computer laboratories is part of each student's experience. Summer reading is required.

**Full Year: 6 credits**

### **H2390 AP Italian V**

AP Italian is a strenuous course of study designed to give self-motivated students a college experience in advanced language study. This course is demanding in the amount and variety of material covered. The Curriculum Coordinator reserves the right to approve or deny admittance into this program. Summer reading is required.

**Full Year: 6 Credits**

## **Spanish**

### **H2400 Spanish I**

The first year course includes work in all phases of language learning: speaking, reading, writing, and listening. Work in both the language and computer laboratories is a part of each student's experience.

**Full Year: 6 credits**

### **H2450 Spanish II**

This course is a continuation of Spanish I with more reading and writing. Audiovisual materials used in the language laboratory are coordinated with the grammatical structures and readings in the classroom.

**Full Year: 6 credits**

### **H2240 Honors Spanish II**

(Prerequisite: See Honors criteria above.)

This course continues the work of Spanish I with more intensive reading and writing. Audiovisual materials used in the language laboratory are coordinated with the grammatical structures and reading in the classroom. This is the first course in the sequence, which leads to Spanish Advanced Placement in the fifth year.

**Full Year: 6 credits**

### **H2500 Spanish III**

Basic grammatical structures are reviewed. Reading assignments are given to develop facility in reading. Comprehension of spoken Spanish is fostered by a variety of native voices on audio recordings used in the language laboratory along with videos and plays.

**Full Year: 6 credits**

### **H2510 Honors Spanish III**

(Prerequisite: See Honors criteria above.)

This course is designed for students who have shown exceptional interest and proficiency in Spanish II. There is great emphasis on fluency in oral presentations and accuracy in the written language. This is the first course in the

sequence and leads to Spanish Advanced Placement in the fifth year.

**Full Year: 6 credits**

### **H2540 Spanish IV**

This course is designed to help students acquire greater facility in the four basic skills. Readings pertaining to culture, history and geography are presented. Audiovisual materials and the internet are used in the laboratory. An assessment of the students' oral skills is given at mid-year.

**Full Year: 6 credits**

### **H2550 Honors Spanish IV**

(Prerequisite: Please see Honors criteria above)

This course continues the accelerated work begun in Spanish III Honors. Literary selections and films are studied to increase proficiency. Written and oral reports are required. An assessment of the students' oral skills is given at mid-year. This is the third course in the sequence which leads to Spanish Advanced Placement in the fifth year. Summer reading is required.

**Full Year: 6 credits**

### **H2580 Honors Spanish V**

(Prerequisite: See Honors criteria above.)

In the Spanish V Honors course students continue to become more proficient in listening, speaking, reading and writing in Spanish in preparation for post high school college level work. Language acquisition at this level will include units on current events, history, culture, fables, legends, poetry, music, art and film. Work in both the language and computer laboratories is part of each student's experience. Summer reading is required.

**Full Year: 6 credits**

### **H2590 AP Spanish V**

Advanced Placement Spanish Language is a strenuous course of study designed to give self-motivated students a college experience in advanced language study. This course is demanding in the amount and variety of material covered. To be accepted into this AP program in the senior year, students must have earned a B+ or better grade in Spanish IV and plan to take the AP Spanish examination offered by the College Board. The Curriculum Director reserves the right to approve or deny admittance into this program. Summer reading is required.

**Full Year: 6 credits**

## **Armenian**

### **H2780 Armenian Language and Culture I**

Both the Armenian language and civilization are taught in this course. Intensive work covers all phases of language learning: listening, speaking, reading and writing. Students are sent to the computer lab to work on written skills. Offering of this course is based on student enrollment of at least twelve students.

**Full Year: 6 credits**

### **H2790 Armenian Language and Culture II**

(Prerequisite: Completion of Armenian I and an evaluation of the student's ability by the teacher) This course is a continuation of the Armenian Language and Culture I. Students are expected to present oral reports in history, art and culture. Personal interviews are conducted in order to perpetuate oral history. Work in the computer lab continues to develop the written language.

**Full Year: 6 credits**

### **H2860 Armenian Language and Culture III**

(Prerequisite: Completion of Armenian II and an evaluation of the student's ability by the teacher) Students

become more proficient in listening, speaking, reading and writing in Armenian. They develop a greater understanding of poetry, legends, music, art and history. Work in the computer lab remains an important element of this course.

**Full Year: 6 credits**

#### **H2870 Armenian Language and Culture IV**

(Prerequisite: Completion of Armenian III and an evaluation of the student's ability by the teacher.) Students continue developing a greater understanding of poetry, legends, music, art and history, through use of more advanced writing and readings. The computer lab will be used for research of historical and cultural projects and report writing in the Armenian language.

**Full Year: 6 credits**

### **Arabic**

#### **H2700 Arabic I**

The first year course includes work in all phases of language learning: speaking, reading, writing, and listening. Work in both the language and computer laboratories is a part of each student's experience.

**Full Year Course: 6 credits**

#### **H2750 Arabic II**

Prerequisite: Successful completion of Arabic I. This course is a continuation of Arabic I with more intensive reading and writing. Tapes and videos used in the language lab are coordinated with the grammatical structures and readings in the classroom. Full Year

**Full Year Course: 6 Credits**

#### **H2760 Honors Arabic II**

(Prerequisite: Please see Honors criteria above.)

Prerequisite: Successful completion of Arabic I. See This course is a continuation of Arabic I with more intensive reading and writing. Tapes and videos used in the language lab are coordinated with the grammatical structures and readings in the classroom. Full year.

**Full Year Course: 6 credits**

#### **H2765 Arabic III**

Prerequisite: Successful completion of Arabic II. This course is a continuation of Arabic II with more intensive reading, writing, speaking, and listening.

**Full Year Course: 6 Credits**

#### **H2770 Honors Arabic III**

(Prerequisite: Please see Honors criteria above.)

Prerequisite: Successful completion of Arabic II. This course is a continuation of Arabic II with more intensive reading, writing, speaking, and listening. Students have conversations and write in the target language. Students learn more in depth about Arabic-speaking cultures.

**Full Year Course: 6 Credits**

#### **H2775 Arabic IV**

Prerequisite: Successful completion of Arabic III. This course is a continuation of Arabic III with more intensive reading, writing, speaking, and listening. Students have conversations and write in the target language. Students

learn more in depth about Arabic-speaking cultures.

**Full Year Course: 6 Credits**

### **H2776 Honors Arabic IV**

(Prerequisite: Please see Honors criteria above.)

Prerequisite: Successful completion of Arabic III. This course is a continuation of Arabic III Honors with more intensive reading, writing, speaking, and listening. Students have conversations, read, research and write in the target language. Students learn more in depth about Arabic-speaking cultures.

**Full Year Course: 6 Credits**

### **H2778 Honors Arabic V**

(Prerequisite: Please see Honors criteria above.)

Prerequisite: Successful completion of Arabic IV. This course is a continuation of Arabic IV Honors with more intensive reading, writing, speaking, and listening. Students have conversations, read, research and write in the target language. Students learn more in depth about Arabic-speaking cultures.

**Full Year Course: 6 Credits**

~~The Watertown Public Schools plans to add Arabic V in 2017-2018.~~

**World Language Sequence Chart**

**Grades 9 – 12**

<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
Armenian I	Armenian II	Armenian III	Armenian IV
Italian I	Italian II	Italian III	Italian IV
Italian II	Italian III	Italian IV	Italian V
Spanish I	Spanish II	Spanish III	Spanish IV
Spanish II	Spanish III	Spanish IV	Spanish V
Arabic I	Arabic II	Arabic III	Arabic IV
Arabic II	Arabic III	Arabic IV	Arabic V

**To change from a non-honors course to an Honors course,  
a student must have a grade of A- or better in the preceding year of the language.**

**Many students start a language after ninth grade, in which case the above labels  
would be replaced with the headings, “First Year of Study,” “Second Year of Study,” etc.**

**Students are permitted to take more than one language per year.**

## **English as a Second Language Program**

**The English as a Second Language (ESL) Program is for English Language Learners (ELLs) whose first language is other than English. The goal of the ESL Program is to provide students with the skills to function successfully in an English speaking environment. ESL classes develop proficiency in speaking, listening, reading and writing in social and academic settings.**

### **ESL English Courses**

These courses may be used to meet the English graduation requirement. The length of time and the periods per day in ESL depend upon the English proficiency level of the individual student.

#### **H2971 Newcomer ESL**

This course is provided for students who have limited to no English proficiency. The goal of the course is to provide students with basic proficiency in listening, speaking, reading and writing. This class meets three periods per day.

**Full Year: 6 credits**

#### **H2971Adv Advanced Newcomer ESL**

This course is provided for students who have limited English proficiency. It is taught in conjunction with Newcomer ESL for students who have not gained enough proficiency in the language to advance to the next level.

**Full Year: 6 credits**

#### **H2910 Beginning ESL**

This course is provided for students with a beginning level of English proficiency. The course expands upon skills learned in Newcomer ESL and focuses on academic listening, speaking, reading and writing. Students learn to construct a cohesive paragraph and understand modified classic novels. This class meets two periods per day.

**Full Year: 6 credits**

#### **H2910Adv Advanced Beginning ESL**

This course is provided for students with a beginning level of English proficiency. It is taught in conjunction with Beginning ESL for students who have not gained enough proficiency in the language to advance to the next level.

**Full Year: 6 credits**

#### **H2980 Intermediate ESL MCAS Prep**

This course is provided for students with an intermediate level of English proficiency. The course focuses on test taking skills for MCAS, with an emphasis on multiple choice questions, short answer questions and written composition.

**Full Year: 6 credits**

#### **H2900 Intermediate ESL**

This course is provided for students with an intermediate level of English proficiency. The course focuses on academic skills to prepare students for mainstream content courses. Students learn to write essays and read and analyze academic texts.

**Full Year: 6 credits**

### **H2901 Intermediate ESL II**

**This course is provided for students with an Intermediate level of English proficiency who have completed H2900 Intermediate ESL. This course focuses on the skills necessary to progress to Advanced ESL and Transitional ESL. Students will continue to refine their skills in reading literary works, writing essays, and presenting their ideas orally.**

**Full Year: 6 credits**

### **H2890 Advanced ESL**

This course is provided for students with an advanced level of English proficiency. The course focuses on the skills necessary for students to transition to mainstream academic courses. Students learn to read classic novels, analyze academic texts and write essays.

**Full Year: 6 credits**

### **H2880 Senior ESL Support**

This course is provided for seniors with an advanced level of English proficiency. The course is taken in conjunction with the mainstream senior English course. During the first semester, students are provided with strategies and skills to complete the senior thesis project. Academic skills for mainstream courses and college prep are emphasized in the second semester.

**Full Year: 6 credits**

## **ESL History and Social Studies**

These courses may be used to meet the History and Social Studies graduation requirement.

### **H2950 Sheltered Beginning U.S. History**

This course is for students of limited English proficiency at the beginning level. The course addresses key historical events in the development of the United States through the 1800s. Map skills and beginning-level social studies vocabulary along with essential concepts of U.S. history are introduced.

**Full Year: 6 credits**

### **H2945 Sheltered Beginning U.S. History for Newcomers**

This course is for students of limited English proficiency at the newcomer level. It is taught in conjunction with Sheltered Beginning US History. Students work from a modified curriculum with the opportunity to participate in class activities.

**Full Year: 6 credits**

### **H2951 Introduction to U.S. History**

This course is for students of limited English proficiency at the beginning level. This modified course addresses key historical events in the development of the United States through the 1800s. Map skills and beginning-level social studies vocabulary along with essential concepts of U.S. history are introduced.

**Full Year: 6 credits**

### **H2920 Sheltered Intermediate U.S. History I**

This course is for students of limited English proficiency at the intermediate level. It is part of a two-year U.S. history sequence. The course focuses on the philosophy of democratic governments and the development of the American governmental system. The course addresses the application of the principles of the Founding Documents to events in U.S. history from industrialization in the 1800s through the Civil War and Westward Expansion. Students concentrate on developing skills such as reading textbooks, interpreting visual information

and essay writing.

**Full Year: 6 credits**

### **~~H2940 Sheltered Advanced U.S. History I~~**

~~This course is for students of limited English proficiency at the advanced level. It is part of a two-year U.S. history sequence. The course focuses on the philosophy of democratic governments and the development of the American governmental system. The course addresses the application of the principles of the Founding Documents to events in U.S. history from industrialization in the 1800s through the Civil War and Westward Expansion. Students concentrate on developing skills such as reading textbooks, interpreting visual information and essay writing. The students will gain the skills necessary to join a mainstream history classroom at the completion of this course.~~

~~**Full Year: 6 credits**~~

### **H2930 Sheltered U.S. History II**

This course is for students of limited English proficiency at the advanced level. The course addresses the application of the principles of American government through various national and global events from World War I to modern times. Connections are made between important movements in American history and key global concepts. The course emphasizes social history in addition to political and governmental concepts. Selected readings and anthologies are included in the course.

**Full Year: 6 credits**

## **ESL Mathematics**

### **H2960 Sheltered Mathematics**

Sheltered Mathematics is a course for students of limited English proficiency. The course emphasizes foundational mathematical concepts and skills. A principal focus of the course is the preparation of students for entry into Algebra I.

**Full Year: 6 credits**

### **H2990 Transitional Mathematics**

This course is provided for students who have limited to beginning English proficiency. The course emphasizes foundational mathematical concepts and skills. It will focus on important concepts in Algebra and show how they can be applied to solve a wide variety of types of problems in daily life and in careers.

**Full Year: 6 credits**

### **H2991 Transitional Algebra**

**This course is provided for students who have limited to beginning English proficiency. This is a full-year introductory algebra course for students have completed the Transitional Math course but require additional work on topics included in the Sheltered Math curriculum. Review topics include operations using fractions, decimals and integers, order of operations geometry, probability and statistics. Algebra topics include algebraic properties, solving and graphing linear equations, solving linear inequalities, exponent properties, systems of equations, and quadratic functions.**

**Full Year: 6 Credits**

# Social Studies

**The social studies curriculum is designed to help students achieve the mission of the high school and to succeed as responsible members of society. The social studies department strives to develop independent thinkers who have strong listening, speaking, writing and reasoning skills. It also fosters a healthy attitude toward learning, a refinement of values, an affirmation of community involvement, and a foundation for self-esteem. Instruction and curriculum are designed to assist students in reaching high levels of achievement through creative and critical thinking as well as through civic engagement.**

**Criteria for Admission to Social Studies Honors and Advanced Placement Courses:**

1. To be considered eligible for an Honors-level course, students must have earned a minimum grade of B for the year from their previous Honors-level course or a minimum grade of A- for the year from their previous non-honors course and must adhere to any other department or course prerequisites.
2. For AP courses,
  - a. To be considered eligible for admission to an AP, course students must have earned a minimum grade of B for the year from their previous AP-level course or a minimum grade of A- for the year from their previous Honors-level course and must adhere to any other department or course requirements.
  - b. To be considered for an AP course, students may be required to complete a writing sample as directed by the social studies department. This writing sample will be submitted prior to the end of the course selection period.
3. Students must complete summer reading in honors and advanced placement courses. All assigned reading will be evaluated during the first few weeks of school in September.
4. Exceptions to this policy will be made by the Department Coordinator in conjunction with a student's current Social Studies Department teacher.

## **H5030 United States History I**

Foundations of America: The ninth grade course focuses on the philosophy of democratic government and the development of the modern American governmental system (1215-186893). This year is primarily, but not exclusively, a political history but it does include significant social concepts. Students are brought through European and colonial history from the Magna Carta through the U.S. Constitution, ~~and aspects of~~ the Civil War, ~~and Westward Expansion~~ to learn how the leading thinkers of their times seized on the idea of natural rights to craft a new paradigm of government and new philosophy of human rights. That model is developed through the country's first century to ~~the emergence of an American empire at the dawn of the 20th Century. its final major change to national supremacy following the Civil War.~~

**Full Year: 6 credits**

## **H5020 Honors United States History I**

(Prerequisite: See Criteria for admission)

Foundations of America: The ninth grade course focuses on the philosophy of democratic government and the development of the modern American governmental system (1215-186893). This year is primarily, but not exclusively, a political history but it does include significant social concepts. Students are brought through European and colonial history from the Magna Carta through the U.S. Constitution, ~~and aspects of~~ the Civil War,

and Westward Expansion to learn how the leading thinkers of their times seized on the idea of natural rights to craft a new paradigm of government and new philosophy of human rights. That model is developed through the country's first century to the emergence of an American empire at the dawn of the 20th Century. ~~its final major change to national supremacy following the Civil War.~~

Students admitted to the honors level class are expected to possess good writing skills and exhibit high academic standards; and a willingness to go beyond the basic requirements of the US History curriculum.

**Full Year: 6 credits**

### **H5110 United States History II**

Defining America: This course studies the application of the principles of American government to different groups of people through various world and national movements and events, from Westward Expansion and beginning of the American empire, ~~the Reconstruction period~~ to modern times (1893~~65~~-present). This year focuses on social as well as significant political and governmental concepts. Curriculum materials include anthologies and selected readings. Students follow major events and movements in American history that ~~and~~ support and link those events to important world happenings.

**Full Year: 6 credits**

### **H5100 Honors United States History II**

(Prerequisite: See criteria for admission)

Defining America: this course studies the application of the principles of American government to different groups of people through various world and national movements and events, from Westward Expansion and beginning of the American empire, ~~the Reconstruction period~~ to modern times (1893~~65~~-present). This year's course focuses on social history but does include significant political and governmental concepts. Curriculum materials include anthologies and selected readings. Students follow major events and movements in American history that support and link those events to important world happenings. Students admitted to the honors level class are expected to possess strong reading and writing skills and exhibit high academic standards and a willingness to go beyond the basic requirement of the US History II curriculum.

**Full Year: 6 credits**

### **H5300 AP U.S. History**

(Prerequisite: See criteria for admission)

~~The Advanced Placement Program in United States History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. This program will prepare students for intermediate and advanced college courses by presenting challenges to them that are equivalent to those of full-year introductory college courses. Students will learn to assess historical materials for their relevance to a given interpretive problem as well as for their reliability. Students will weigh both evidence and researched interpretations as presented in historical scholarship. Only those students who have outstanding academic records will be considered as applicants. Students who take this course must accept the challenge of very demanding work all year, and are expected to take the AP exam in May as the appropriate conclusion to their efforts.~~

The Advanced Placement Program in United States History is designed to prepare students for college by presenting curriculum and academic challenges to them that are equivalent to those of full-year introductory college courses. AP US History provides students with the structured writing, analytical skills, and factual knowledge necessary to deal critically with the problems and materials in United States history. Students will learn to assess historical materials for their relevance to a given interpretive problem as well as for their reliability. They will weigh both evidence and researched interpretations as presented in historical scholarship. Only those students who have outstanding academic records will be considered as applicants. Students who take this course must accept the challenge of very demanding work all year and are expected to take the AP exam in May as the appropriate conclusion to their efforts.

**Full Year: 6 credits**

### **H5430 World History**

This course will focus on the interrelationship of European history with the development of Africa, Asia and the Americas. Indigenous cultures will be addressed. Particular emphasis will be given to political, cultural and social trends that define the modern world (post French Revolution). Each student is expected to engage in critical thinking, expository writing and oral presentations as well as to complete periodic reports and projects. Attention will be given to current worldwide issues using periodicals, media materials and student-based research utilizing computer technology.

**Full Year: 6 credits**

### **H5410 Honors World History**

(Prerequisite: See criteria for admission)

The Honors program in World History is designed for those highly motivated students who wish to pursue an intensive intermediate college level course. The historical focus of the course will be from the late Middle Ages (European Renaissance) to present day and the curriculum will provide a basis for independent projects, term reports and primary source analysis. Particular attention will be directed to interactions among the people of Asia, Africa, Europe and the Americas, and the cultural diffusion that resulted. Emphasis will be placed on critical thinking, analysis and interpretation of significant historical events, essay writing and in-depth research skills.

**Full Year: 6 credits**

### **H5180 AP European History**

(Prerequisite: See criteria for admission)

The Advanced Placement Program in European History is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with issues in European history since the ecclesiastical wars of the Middle Ages. This program will prepare students for intermediate and advanced college courses by presenting challenges to them that are equivalent to those of full year introductory college courses. Students will learn to assess historical data with emphasis on major documents and scholarly analyses of European history. Only those students who have outstanding academic records will be considered as applicants. Students who take this course must accept the challenge of very demanding work all year, and are expected to take the AP exam in May as the appropriate conclusion to their efforts.

**Full Year: 6 credits**

### **H5463 Contemporary World (Grades 11, 12)**

This semester course will engage students substantively in contemporary world issues. Possible areas of inquiry include, but are not limited to, political, environmental, and social trends that are of current interest. Inquiry will be primarily based on current newspapers, periodicals, and various other written and electronic sources. Students are expected to be willing to engage in oral presentations, expository writing, and critical thinking. Throughout the course, students will choose an area of interest (e.g. health, human rights, environment, education, child issues) and study the work of non-governmental organizations (NGOs) engaged in the issue, eventually using this study to produce a final project which may be service related. Students will have the additional option of participating in the school's Model UN club, participating in regional conferences, and providing assistance to members who are underclassmen.

**Semester Course: 3 credits**

### **H5540 Psychology**

(Seniors given first preference)

Psychology is designed to introduce the college-bound senior to the social and behavioral sciences. The course will focus on such traditional areas of behavioral inquiry as learning, conflict and frustration, personality theory,

child development, and abnormal behavior. The course will require outside reading, experiments both in and out of the classroom, and an in-depth research project.

**Full Year: 6 credits**

### **H5600 Honors Psychology**

(Seniors given first preference)

(Prerequisite: See criteria for admission)

The Honors program in Psychology will examine and evaluate the major topics and theories of behavior. Students will study the basics of psychological research, the interaction of physical, psychological and social factors in the human life cycle, and the competing theories of the behavioral sciences. Emphasis will be placed on active learning, original research, observation both in and out of the classroom and problem solving.

**Full Year: 6 credits**

### **H5500 AP Psychology**

(Seniors Only)

(Prerequisite: See criteria for admission)

The Advanced Placement Program in Psychology is designed to provide students with the analytical skills and knowledge necessary to deal critically with issues in psychology. This program will prepare students for intermediate and advanced college courses by presenting challenges to them that are equivalent to those of full year, introductory college courses. Students will learn to assess competing theories of behavior, applications of psychological research, and the spectrum of human behavior. Only those students who have outstanding academic records will be considered as applicants. Students who take this course must accept the challenge of very demanding work all year and are expected to take the AP exam in May as the appropriate conclusion to their efforts.

**Full Year: 6 credits**

### **H5840 American Legal System**

(Seniors given first preference)

This year long course will give students a basic understanding of the American legal system. Units will include: Introduction to Law, Criminal Law and Juvenile Justice, Tort Law and Civil Liberties, and Civil Rights. In addition to class discussions and group projects, the course will include guest speakers, mock trials, field trips, debates, and research work. Excellent attendance is expected in this course due to guest speakers and in-class projects.

**Full Year: 6 credits**

### **H5800 Honors American Legal System**

(Seniors given first preference)

This year long course will give students a basic understanding of the American legal systems. Units will include: Introduction to Law, Criminal Law and Juvenile Justice, Tort Law and Civil Liberties and Civil Rights. Each student will pursue individual research on projects that require extensive writing, oral presentation and community interaction. This course is designed for students who are especially interested in the field of law and law enforcement. In addition to class discussions and group projects, the course will include guest speakers, mock trials, field trips, and debates. Excellent attendance is expected in this course due to guest speakers and in-class projects.

**Full Year: 6 credits**

### **H5730 Civics**

(Seniors only)

This course is designed to introduce a variety of civic topics through limited research and class discussion to students who will be turning 18 years old. Students will learn how laws and political decisions are made and how these decisions affect their lives. Some areas of study include: citizenship, political science, government, democratic beliefs, elections, and community organizations. Each student will have the opportunity to interact with a number of out-of-school events, such as Massachusetts Student Government Day and the Close Up Washington Program. Students will participate in numerous group projects of personal interest in areas of politics, sociology and current events.

**Full Year: 6 credits**

**H5720 Honors Civics**

(Seniors only)

This course is designed to introduce a variety of civic topics to students who will be turning 18 years old and want to learn how decisions are made that affect them. Some areas of study include: citizenship, political science, government on the local, state and national levels, democratic beliefs, elections, and community organizations. Each student will interact with a number of out-of-school opportunities, such as Massachusetts Student Government Day, the Close Up Washington Program, and various town-wide governmental activities. Students will complete summer reading, conduct research, and be part of numerous group projects of personal interest in the areas of politics, sociology and current events.

**Full Year: 6 credits**

<b>Social Studies Sequence Chart</b>			
<b>Grades 9 – 12</b>			
Grade 9	Grade 10	Grade 11	Grade 12
US History I	US History II	World History	American Legal
		Psychology*	Psychology
		Contemporary World	Contemporary World
		American Legal*	Civics
Honors US History II	Honors US History II	Honors World History	Honors American Legal
		Honors Psychology*	Honors Psychology
		Honors American Legal*	Honors Civics
	AP US History	AP European	AP Psychology

\*These courses are available to juniors on a space-available basis.

~~Psychology is available to juniors but on a space-available basis~~ (AP Psychology is seniors only)

# Mathematics

The Watertown High School Math Department strives to bring every student to their mathematical potential by providing a rigorous and comprehensive curriculum complemented by teacher support and technology. Students are offered multiple paths for four years of mathematics, all designed for mathematical success in post-high school programs. Support is available in many forms, including a Math Lab open all periods, as well as access to teachers both before and after school.

Students who study mathematics will exhibit critical and analytical thinking skills in all mathematics courses. Technology will be used to help students solve problems and to strengthen their understanding. Students who plan on going to college should consider taking a mathematics course each year. Honors level courses are designed to provide intensive instruction to students who have demonstrated an outstanding level of achievement and interest in studying mathematics in depth and pursuing individual projects. Prerequisites for some courses are stated in the course descriptions. Refer to the math sequence chart for a graphic view of the courses that may be best for you.

## Calculators

Calculators are required for all courses and are the responsibility of the student to purchase. For courses at a level of Algebra II and below, students will need the TI-30XS Multiview. For courses beyond Algebra II, students will need one of the Texas Instruments graphing calculators, either the TI-83+ or one of the TI-84 versions.

### **H3070 Applied Algebra I**

This is the first half of a two-year program. It will focus on important concepts in Algebra and show how they can be applied to solve a wide variety of types of problems in daily life and in careers. A principal focus of the course will be the preparation of the student for the MCAS examination. The follow-up course will be Applied Geometry.

**Full Year: 6 credits**

### **H3220 Applied Geometry**

This course in plane geometry is the second half of a two-year program. The course focuses on the key topics that provide a strong foundation in the essentials of geometry. However, algebraic concepts from 3070 will be reviewed and reinforced. These concepts will include algebraic applications as they apply to the real world. A principal focus of the course will be the preparation of the student for the MCAS examination.

**Full Year: 6 credits**

### **H3620 MCAS Preparation – Math (Unleveled)**

(Enrollment in the course is limited to sophomore students)

This course is for students who have not passed the Math MCAS in grade 8..

**Full Year: 3 credits**

### **H3110 Algebra I**

This course in Algebra integrates geometry, probability and statistics together with algebra. Pure and applied mathematics are also integrated throughout the course. Topics include the study of real numbers, rational and irrational, the solution of linear and quadratic equations, graphing and equations for lines.

**Full Year: 6 credits**

### **H3200 Honors Geometry**

(Prerequisites: Teacher recommendation and either: Completion of Honors Algebra I in Grade 8 with a B or better, or completion of Algebra I (3110) with an A and acceptable score on entrance exam required for placement from Grade 8)

This is an accelerated course in plane geometry. Principles of logical reasoning are introduced early. Students develop their deductive reasoning skills throughout the course. Algebraic concepts and skills are interwoven with the geometry. Considerable motivation to do outside study is required.

**Full Year: 6 credits**

### **H3210 Geometry**

(Prerequisites: Teacher recommendation and either: successful completion of Algebra I (3110), or completion of Grade 8 Math with an A and acceptable score on entrance exam required for placement from Grade 8)

This is a standard course in plane geometry that prepares students for college entrance exams. Four dimensions of understanding are emphasized: skill in drawing, visualizing, and following algorithms; understanding of properties, mathematical relationships and proofs; using geometric ideas in real situations, and representing geometric concepts with coordinates, networks or other diagrams.

**Full Year: 6 credits**

### **H3300 Honors Algebra II**

(Prerequisites: Teacher recommendation and either: completion of Honors Geometry with a grade of B- or better, or completion of Geometry L1 with a grade of A)

This is an accelerated course in algebra. It moves quickly to topics students have probably not seen before in Algebra I. The course emphasizes the roles of algebra and trigonometry as a foundation for calculus. There are discovery exercises so that students may wrestle with a new concept before it is reinforced by classroom discussion. Reading and writing within the context of mathematics are emphasized in the course.

**Full Year: 6 credits**

### **H3310 Algebra II**

(Prerequisites: Teacher recommendation and successful completion of Geometry L1)

This is a standard course in Algebra II. Problem solving is introduced early and is integrated throughout the course. Applications of algebra are presented in interesting and varied word problems. Reasoning skills such as analyzing information, making conjectures and giving convincing arguments are developed throughout the course.

**Full Year: 6 credits**

### **H3130 Intermediate Algebra**

(Prerequisite: Successful completion of two years of Applied Algebra/Geometry or the equivalent)

This course will help the student develop proficiency in algebra. It will show students how algebra can be used as a modeling language for real life situations. Students will be constantly using and reviewing their problem solving skills.

**Full Year: 6 credits**

### **H3400 Honors Precalculus**

(Prerequisites: Teacher recommendation and either: completion of Algebra II (Honors) with a grade of B- or better, or completion of Algebra II L1 with a grade of A)

This is a course to prepare college-bound students for a first course in Calculus at the high school level. Students will be asked to complete a summer packet based on Algebra II for this course. Topics in this course include: Function analysis (polynomial, exponential and logarithmic), Trigonometry, Conic sections, Vectors, Polar coordinates and Limits

**Full Year: 6 credits**

### **H3410 Precalculus**

(Prerequisite: Teacher recommendation and successful completion of Algebra II with a grade of B- or better)

This is a course to prepare college-bound students for a first course in Calculus. Topics in this course include: an extensive review of Algebra II, circular functions and trigonometry, advanced algebra, analytical geometry, matrices and polar coordinates.

**Full Year: 6 credits**

### **H3360 Advanced Algebra with Trigonometry**

(Prerequisite: Successful completion of Algebra II)

This course is designed to expand on work from Algebra II and prepare students to enter precalculus. Topics will include a review of Algebra II, use of advanced algebra topics to explore logic and problem solving, and a foundation in circular functions and trigonometry.

**Full Year: 6 credits**

### **H3450 Topics in Statistics**

(Prerequisite: Teacher recommendation and either successful completion of Algebra II, or a B+ in Intermediate Algebra)

This introductory course is designed for seniors who are either interested in taking a fourth year of mathematics but choose not to take precalculus or who have taken precalculus but prefer not to take calculus. Topics studied include descriptive statistics, correlation and linear regression, experimental design, normal distributions, probability and inferential statistics including confidence intervals and significance tests. Graphing calculators will be used extensively, and students should note that the course will be word-problem intensive.

**Full Year: 6 credits**

### **H3460 Honors Statistics**

(Prerequisite: Successful completion of Algebra II H with a grade of B or better or Algebra II L1 with a grade of A or A+)

This course is designed for those students who are interested in taking an advanced course in statistics that is not as rigorous as the Advanced Placement course. Topics studied will be those found in a traditional college statistics course with a heavy emphasis on computer and graphing calculator applications. Areas of study include descriptive statistics, data collection and analysis experimental design, linear regression (including residual plots and logarithmic transformations), probability and extensive discussion of inferential statistics using the normal, t, chi-square and F distributions. Students are expected to purchase a TI-83+ or TI-84+ graphing calculator.

**Full Year: 6 credits**

### **H3600 AP Statistics**

(Prerequisites: Teacher recommendation, excellent writing skills with at least an A- in English L1 or a B or above in English H or AP, and either completion of Precalculus with a grade of B or better, or Algebra II Honors with a grade of A- or better)

This is an advanced course in mathematics. It is recommended for students who are thinking about careers in

business, the sciences or social sciences. Substantial technical writing is involved as well as abstract reasoning and problem solving with a high degree of independence. The topics studied will be those in a traditional college statistics course with heavy emphasis on computer and graphing calculator applications. The topics include descriptive statistics, data collection and analysis, experimental design, probability, linear regression, and an extensive discussion of inferential statistics using the normal, t, and chi-square distributions. Students are expected to take the AP Exam in May and are required to purchase a TI83+ or TI-84+ calculator.

**Full Year: 6 credits**

### **H3500 AP Calculus AB**

(Prerequisite: Completion of Precalculus Honors with B+ or better and teacher recommendation)

This is an advanced course in mathematics for those students who are planning careers in mathematics, the sciences, engineering, or other college majors which require calculus. Students who take this course must accept the challenge of very demanding work all year, and are expected to take the AP exam in May as the appropriate conclusion to their efforts. Students are required to purchase a TI-83+ or TI-84+ calculator.

**Full Year: 6 credits**

### **H3520 Honors Calculus**

(Prerequisite: Teacher recommendation and completion of Precalculus with B or better)

This is an advanced course in mathematics for those students who are planning careers in mathematics, the sciences, engineering, business or other college majors which require calculus. Students are required to purchase a TI-83+ or TI-84+ calculator.

**Full Year: 6 credits**

### **H3630 Preparation for College Math**

This course is a review and enrichment of topics that will be helpful to you as you leave Watertown high school. Topics include linear, quadratic and exponential functions, Geometric applications, function/ polynomial operations and many more high school mathematical topics. Some time will be spent in the first quarter reviewing SAT questions and strategies for the October and November tests. Throughout the year you will work on problem solving skills and you will be given many open ended question options. It is the goal at the end of this course that you will be independent, creative problem solvers ready to face any math course the future may have for you.

**Full Year: 6 credits**

### **H3713 Introduction to Computer Science Principles**

(Prerequisite: Successful completion of Geometry L1. Exceptions will be made on a case-by-case basis depending on prior coding experience)

This is a hands-on introductory class. There are some class discussions and lectures on the bigger ideas in programming, and students spend the vast majority of class time coding. Each month, students program their own versions of classic video games, including Mario, Pong, and Space Blasters. The final project is for students to create and then code their own game. The class uses a visual programming language called 'Snap!' and is based on a course taught at UC Berkeley.

**Semester Course: 3 Credits**

### **H3700 AP Computer Science A**

(Prerequisite: Successful completion of Introduction to Computer Science Principles. Exceptions will be made on a case-by-case basis depending on prior coding experience)

AP Computer Science A covers material similar to most collegiate Intro to Computer Science programs. By the end of the course, students should be able to design, implement, and analyze solutions to problems, use and implement commonly used algorithms, use standard data structures, develop and select appropriate algorithms and data structures to solve new problems, write solutions fluently in an object-oriented paradigm, and write, run, test,

and debug solutions in the Java programming language, utilizing standard Java library classes and interfaces from the AP Java subset. As a result, students will also be able to read and understand programs consisting of several classes and interacting objects, read and understand a description of the design and development process leading to such a program, and understand the ethical and social implications of computer use. Problem solving and the ability to work independently are both skills that will be called on regularly.

**Full Year: 6 credits**

## Mathematics Sequence Chart

The following chart represents four possible courses for the 9th grade year and the likely courses that will follow from grades 10-12. The curriculum structure reflects the importance of a solid foundation in Algebra prior to beginning Geometry. Note that beginning high school in one of the columns below does not guarantee students will finish in the same column senior year. Our top priority is to place students in the proper course for them from one year to the next based on their assessed performance and level of understanding.

<b>Mathematics Sequence Chart</b>				
<b>Grades 9 – 12</b>				
	<b>Sequence One</b>	<b>Sequence Two</b>	<b>Sequence Three</b>	<b>Sequence Four</b>
<b>Grade 9</b>	Applied Algebra I <del>L2</del>	Algebra I <del>L1</del>	Geometry	Hon Geometry
<b>Grade 10</b>	Applied Geometry <del>L2</del>	Geometry	Algebra II <del>L1</del>	Hon Algebra II
<b>Grade 11</b>	Intermediate Algebra	Algebra II <del>L1</del>	Precalculus <del>L1</del> <b>or</b> Advanced Algebra with Trigonometry	Hon Precalculus <b>and</b> AP Statistics (with prerequisites met)
<b>Grade 12</b>	Algebra II <del>L1</del> <b>or</b> Topics in Statistics <del>L1</del> <b>or</b> Preparation for College Math	Topics in Statistics <b>or</b> Hon Statistics <b>or</b> Advanced Algebra with Trigonometry <b>or</b> Precalculus <del>L1</del>	Hon Calculus <b>or</b> AP Calculus <b>or</b> Precalculus <del>L1</del> <b>or</b> Topics in Statistics <b>or</b> Hon Statistics <b>or</b> AP Statistics	Hon Calculus <b>or</b> AP Calculus <b>or</b> Hon Statistics <b>or</b> AP Statistics
<b>Electives*</b>	Introduction to Computer Science Principles, AP Computer Science			

**All courses have prerequisites.** You must obtain a recommendation from your current teacher. Please consult your Math teacher or Guidance Counselor if you are uncertain as to which course is best for you.

The **3620 MCAS Prep course** is taken as a second Math class during 10th grade. It does not replace any course in the sequence of required classes.

**Introduction to Computer Science Principles and Advanced Placement Computer Science** are electives and

are meant to be taken in conjunction with other math courses once you have completed Geometry.

**Once Algebra II has been successfully completed, many possibilities follow.** Students who have not achieved a scaled score of 240 on the MCAS will be required to take Advanced Algebra with Trigonometry and/or College Algebra, and students planning to attend a four-year college following high school are strongly encouraged to take Precalculus.

**We recommend, if possible, taking a course in Statistics before graduation.** Statistics is occasionally taken as a second course along with Precalculus or Advanced Algebra with Trigonometry.

\* Note that electives are not counted toward the number of math courses required for graduation.

## **Career and Technical Education**

**Our program areas include Information Support Services and Networking; Marketing/Finance; Culinary Arts; Early Childhood Education and Care; Radio and Television Broadcasting; Project Lead the Way™ (PLTW) Engineering Technology; Graphic Design and Visual Communications; and Carpentry.** These programs give students meaningful, challenging educational experiences to gain the knowledge, skills, competencies, self-confidence and self-esteem to be successful in today's fast-changing society. Students participate in authentic, challenging projects that involve collaboration, technology, creativity, problem-solving, high-level communication, and other career-specific skills.

**Be prepared for college and/or further advanced training—take courses in Career and Technical Education! These courses could be your pathway to postsecondary education and careers.**

**All Career and Technical Education Courses are open to all students.**

### **Business and Office Education/Technology & Personal Finance/Economics**

Learn to:

- Manage money, time, and resources
- Set goals and achieve them by organizing time, work, and resources effectively
- Know career options and requirements needed for employment and academic success
- Select and apply technology tools for making personal and business decisions and achieving personal and organizational goals
- Apply critical-thinking skills to function in multiple roles as economically literate citizens, consumers, workers, managers, business owners, and directors of your economic future

### **Family and Consumer Sciences**

This program area focuses on the core concepts of the Massachusetts Comprehensive Health/Family and consumer Sciences Curriculum Frameworks: Health Literacy/Healthy Self-Management Skills/Health Promotion. In **Foods and Nutrition**, students will learn how to make healthy, informed food choices using Choose My Plate. **Food Services/Hospitality** enables students to explain factors associated with a safe food supply (food handling, production, food storage, and preparation techniques). In the **Introduction to Child Development and Parenting** course, students will be able to describe proper prenatal care and identify types of birth defects.

### **Industrial Technology**

Be proactive! Be prepared! Take courses within the Industrial Technology area.

Through authentic applications this program prepares students for college and/or further advanced training in technical fields. Courses stress use of the design process and the application of problem solving skills in the context of each area's real life situations. Courses include Woodworking, Advanced Woodworking, Graphic Design and Graphics II/Web Design.

This program area reflects the goals and standards of the Technology portion of the Massachusetts Science and Technology/Engineering Curriculum Frameworks. Through authentic applications, the Industrial Technology program prepares students for college and/or further advanced training in technical fields. Courses in this area require the use of mathematics and science concepts as applied in real situations. These courses also stress the use of the design process and the application of problem solving skills in the context of each area's real life situations.

### **Film and Television Production**

Learn about mass communications and about film and video production including editing and shooting videos in the state-of-the-art TV studio.

### **Radio Broadcasting**

Learn about the importance of writing and language choice to paint the “word picture” into storytelling, and advance stories and opinions, without the benefit of pictures. Students will also be introduced to the basics of radio broadcast equipment, editing, and show preparation.

### **Project Lead the Way™: Engineering**

This program area reflects the goals and standards of the Engineering portion of the Massachusetts Science and Technology/Engineering Curriculum Frameworks. ~~Through authentic applications, the Industrial Technology program prepares students for college and/or further advanced training in technical fields.~~ Courses in this area require the use of mathematics and science concepts as applied in real situations. These courses also stress the use of the design process and the application of problem solving skills in the context of each area's real life situations.

PLTW Engineering™ is more than just another high school engineering program. It is about applying science, technology, engineering and math through a project-based, hands-on approach to solve complex, open-ended problems in a real-world context. Students focus on the process of defining and solving a problem, not on getting the “right” answer. They learn how to apply STEAM knowledge, skills and habits of mind to make the world a better place through innovation. Even for students who do not plan to pursue engineering after high school, the PLTW Engineering™ program provides opportunities to develop highly transferable skills in critical thinking, collaboration and problem-solving, which are relevant for any coursework or career.

## **Business and Office Education/Technology**

### **H6323 Computer Applications I**

(Meets Computer Literacy Requirement)

Learn the basic skill requirements in today's world using the latest online programs, Microsoft Office and Internet navigation skills. Learn to plan and create publications by applying basic principles of page design and layout concepts, import text and graphics for word processing software to produce advertising flyers and multi-page documents. These are required marketable skills for all students and help to provide the basics for further work in web design, another emerging career field.

**Semester Course: 3 credits**

### **H6343 Advanced Computer Applications – Microsoft Office XP**

(Meets Computer Literacy Requirement)

Learn computer applications the right way painlessly and learn to verify website content when doing internet

research. Imagine having a knowledgeable person available to immediately assist you in learning today's most widely used software applications for business and/or personal use. Students will use the computer as a problem-solving tool to develop PowerPoint presentations, create spreadsheets, learn database management, graphics, etc., to apply technology to projects in other classes. Many projects require internet research.

**Semester Course: 3 credits**

### **H6350 Accounting I**

Students develop an understanding of basic accounting concepts through the accounting cycle for various forms of business. This course focuses on sole proprietorship. Sole proprietorship is essential for entrepreneurs. Concepts include journalizing business transactions, posting to ledger accounts, and preparation of financial statements. Many real world examples will be discussed throughout the course. Students are introduced to the use of spreadsheets and computerized accounting systems on computers. This course prepares students for managing personal finances and for further study in accounting – the “language” of business.

**Full Year: 6 credits**

### **H6380 Accounting II**

(Successful completion of Accounting I is required for enrollment.)

Accounting II reviews the proprietorship and partnership cycle and goes on to the corporation accounting cycle. In addition to accruals and prepaid expenses, purchases, sales, cash receipts and payments, payroll records, depreciation, and bad debts are studied and discussed. The use of accounting procedures to make decisions about planning, organizing, and allocating resources is emphasized. Students use spreadsheet and accounting software to create and maintain records for a simulated corporation. This course prepares students for further study at the college level.

**Full Year: 6 credits**

### **H6373 Personal Finance/Economics**

(Meets half year of Math requirement beyond Applied Geometry)

Personal Finance is a comprehensive, financial literacy course designed to assist students in developing core knowledge and skills needed for successful life planning and management. Students will be introduced to a range of financial alternatives and explore basic decisions and strategies necessary to become informed employees, consumers, and citizens. Various topics covered will include planning your career, saving and investing, spending, credit, insurance, and taxes among others. This course utilizes the National Endowment for Financial Education (NEFE) program as well as various projects.

**Semester Course: 3 credits**

## **Family and Consumer Sciences**

### **H6503 Foods and Nutrition I**

This course is designed to teach the basics of food preparation, with nutrition as the underlying theme. Using the concept of “building a healthy plate” created by the U.S. Department of Agriculture, students will address real-life issues of a “healthy” plate by learning about the “10 tips to a great plate”. They will learn how to (1) balance calories, (2) enjoy food, but eat less, (3) portion control, (4) foods to eat more often (whole grains, vegetables, fruits, low-fat dairy), (5) how to include more fruits and vegetables into their daily diets, (6) switch to low-fat or fat-free dairy (or soy) products, (7) how to make half their grains whole grains each day, (8) which foods to eat less often (foods high in solid fats, added sugars and salt), (9) learn how to read the nutrition facts panel and (10) drink more water instead of sugary drinks. Readings, student PowerPoint presentations, worksheets from the Guide to Good Food textbook, as well as the use of the ChooseMyPlate.gov website, will be an integral part of the course. Foods to be prepared include quick breads (blueberry muffins, corn bread), yeast breads (whole wheat

pizza), and low-fat cookies (pumpkin, chocolate chip). *This course serves as a basis for further study in the Food Services/Hospitality courses (6513/6520).*

**Semester Course: 3 credits**

### **H6513/H6520 Food Services/Hospitality**

(Limited to Sophomores, Juniors and Seniors)

(Prerequisite: Satisfactory completion of H6503 Foods and Nutrition I)

This course offers an introduction and overview of opportunities in the hospitality and food services industry. Students will examine the historical importance of food production/processing and relate it to current industry trends, product development, and marketing/sales. Preparation of more complex and varied food products will provide opportunities for skill mastery and address the nutritional aspects of different cuisines. Students will learn how nutrition impacts menu planning; be able to describe how companies promote new food products and learn techniques of proper food preparation and the basics of large-scale food service equipment. Students will learn ServSafe® for food handlers. For a fee, they may then choose to take (during class time) the certification test offered by the National Restaurant Association. Readings, PowerPoint presentations and student food demonstrations, worksheets from the [Culinary Essentials](#) textbook, as well as the use of the websites [cdc.gov](#) ChooseMyPlate.gov, and LiveBetterAmerica.com will be an integral part of this course. Foods to be prepared include yeast breads (whole wheat bread), pasta (cheese-stuffed shells), quick breads (blueberry coffee cake), and pies (savory and sweet).

As safety and production allow, the Watertown High School cafeteria will be used as a supplemental learning environment. Guest speakers, as well as field trips to local restaurants, may be arranged to supplement classroom assignments. Where appropriate, students will be given the opportunity to participate in the Raider Café at WHS in the spring time as well as internships to master knowledge, skills, and attitudes, which will help them find employment.

**H6513 Semester Course: 3 credits**

**H6520 Full Year: 6 credits**

### **H6600 Introduction to Child Development and Parenting**

(This course is open to Sophomores, Juniors and Seniors)

(Prerequisite: students may want to take Psychology 5540)

This course is designed for students interested in learning about the care of children, how to become effective parents, and exploring possible career choices in the field of child care. Using the text, [The Developing Child](#), students will be required to read and write on topics of childcare and child development. Study of the child begins with pregnancy and prenatal development and continues with growth from birth to preschool age. Parenting is a major topic of study. [HeartSaver® CPR/AED training is part of this course. For a fee, students may choose to become officially certified by the American Heart Association \(during class time\).](#) Midyear, students will carry their own “babies” to help them experience the work and effort of parenthood. Positive and negative ways children and parents relate will be discussed. Because you cannot separate children from the social issues of the 21<sup>st</sup> century, child abuse, the battering of women, addiction, divorce and HIV will also be studied. Short research paper topics include child development theorists and birth defects. Time permitting, in the spring, each student will be given the opportunity to bring a child (preschool age) to a Piaget workshop at WHS. Guest speakers, as well as a field trip to Children’s Hospital, may be arranged to supplement classroom assignments. Guest speakers may include our Resource Officer, an obstetrics nurse, a certified nurse midwife, and/or parents of young children.

**Full Year: 6 credits**

### **H6610 Advanced Child Development and Parenting**

*The course is open to all young men and women in grades 11-12 and will alternately meet at the preschool*

*placement and at the high school.*

(Prerequisite: Satisfactory completion of 6600 Introduction to Child Development and Parenting)

Designed for students interested in going into the career fields of teaching, social work, nursing, medicine and counseling, this course gives students firsthand experience working with children as teacher assistants in elementary or preschool classrooms. Responsibilities include tutoring individual children, working with small groups and conducting lessons in reading, math, art, science, social studies and foods.

Students can choose from a variety of areas for their placements as teacher assistants. These areas include: preschools; elementary school grades; resource rooms (involving work with individual children who need extra attention and help); and special education classes. In their placements, students will complete 80 hours, which may be used toward the Department of Early Education and Child Care requirements for Infant/Toddler or Early Childhood certification. Class discussions will focus on students' observations and their work with children. Readings and activities from *Working with Young Children* will help students build from their experiences.

**Full Year: 12 credits**

## **Industrial Technology**

### **H6223 Woodworking**

This introductory level course will provide instruction for the proper use of hand tools, portable power tools and stationary woodworking machines. This class will focus on the importance of planning, design and woodshop safety. All students will gain understanding of the Milling Process which transforms raw material into industry standard finish stock. The woodworking industry has undergone many changes, and the students will obtain the training that is necessary for employment in this challenging industry.

**Semester Course: 3 credits**

### **H6250 Advanced Woodworking and Technology**

(Prerequisite: Successful completion of 6223 Woodworking or equivalent.)

This course is designed as a continuation of the Introduction to Woodworking course (6223). This advanced level woodworking course will engage all students with industry standard woodworking skills and the achievement of a marketable skill. Emphasis is focused on the safe and productive use of hand, power and stationary tools. Students will fabricate two mandatory projects followed by student selected project(s). Individual student achievement is paramount in this project-based curriculum.

**Full Year: 6 credits**

### **H7043 Graphic Design**

See Course Description in Visual Arts.

### **H7033 Graphics II/Web Design**

See Course Description in Visual Arts.

## **Film, and, Television and Radio Production**

### **H6893 Multiple - Camera Television Production**

**(Prerequisite: Satisfactory completion of H6884 Television News Production)**

Students with a desire to pursue the Digital Media & Communications field will be responsible for developing major content pieces for airing on WCA-TV. Students in this course will work collaboratively on productions of news, weather, sports, entertainment, and more, producing multiple shows per semester, presenting the world from the perspective of WHS students. The show will allow students to take on the challenges experienced by a real world television station at the local and/or network level. Students will rotate from on-air talent to technical and administrative roles. The instructor, acting as Managing Editor, will hear student pitches along with student producers, and help guide them in the production development and planning. Once productions are complete, the instructor will help to break-down and evaluate each production, and sharing with the class to improve future productions.

**Semester Course: 3 credits**

### **H6963 Documentary Production**

Are you passionate about sports? Dance? Computers? Have a story to tell? In this course students will make a documentary video by working in teams, each student participating in one of many aspects of the production. Students will learn how to set up and record interviews, how to shoot sequences, and how to edit their footage. The final projects will be shown online and on WCA-TV. We will also examine documentary production techniques through a mixture of screenings, discussion, and hands-on exercises.

**Semester Course: 3 credits**

### **H6884 Television News Production**

**(Prerequisite: Satisfactory completion of 6963 Documentary Production)**

Ever dream about being a sportscaster? How about a news anchorman/woman? Here is your chance to turn your dream into a reality. The course will examine the range of ways in which TV news is made and produced. Classes will be held in our state-of-the-art TV studio. Students will have hands-on experience using the equipment, writing news programs, editing, and producing a TV news show once a month for the whole school and town to see! In this project based class, you will build upon skills you learned in Documentary Production helping tell the stories of the WHS community as a producer, reporter and anchor on the "Raider News" team.

**Semester Course: 3 credits**

### **H6983 Radio Broadcasting**

Do you enjoy talking about sports? News? Music? Entertainment? In the era before television, radio served as the major source for information and entertainment. Now, in the modern world of Digital Media & Communications, radio continues to serve as a popular source to engage listeners as they travel from place to place, or while they work on a daily basis. Students will learn about the importance of writing and language choice to paint the "word picture" in their storytelling, and advance stories and opinions, without the benefit of pictures. They will also be introduced to the basics of radio broadcast equipment, editing, and show preparation. Student teams will be responsible for conceptualizing, developing, and creating a radio program to be broadcast on WCAC-Radio and posted to the web as a podcast series.

**Semester Course: 3 Credits**

### **H6985 Advanced Radio/Television Broadcast/Production/Management Capstone**

**(Prerequisite: Student Proposal and advance Instructor Approval Required (JR & SR ONLY))**

Students looking to expand their experience in Radio and/or Television can propose a student driven and independently directed pursuit within the digital media program. Students will gain valuable "on the job" work experience managing a multifaceted long term broadcast project, taking responsibility for creating programming

that is of the highest quality, substantial in nature, and compelling to viewers of WCA-TV. You will receive helpful feedback from your instructor that will help you grow as a journalist. Students also have the opportunity to focus on exploring the management and development of the WHS on WCA-TV brand. Students completing this curriculum will be well-equipped with a portfolio of skills and finished projects to pursue digital media and communications at a two-year or four-year college or university.

**Semester only (3 credits) OR Full Year (6 credits), maximum 6 credits.**

## **Project Lead the Way™: Engineering**

### **H6400 Introduction to Engineering Design – IED -**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work. This course is one of two possible prerequisites to specialized engineering courses. Through this course's practical real-world connections, students will see how science, mathematics, and engineering are part of their everyday life, how society and the environment is impacted by the engineered world, and why it is important for every citizen to be technologically and scientifically literate.

**Full Year 6 Credits**

### **H6401 Principles of Engineering – POE -**

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem-solving, research and design while learning strategies for design process documentation, collaboration and presentation. Through this course's practical real-world connections, students will see how science, mathematics, and engineering are part of their everyday life, how society and the environment are impacted by the engineered world, and why it is important for every citizen to be technologically and scientifically literate.

**Full Year 6 Credits**

### **H6402 Digital Electronics – DE –**

(Prerequisite: Successful completion of 6400 or 6401)

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits and programmable logic devices.

**Full Year 6 credits**

### **H6405 Engineering Design and Development - EDD -**

(Prerequisite: Successful completion of H6400 AND either of H6401 OR H6402)

EDD is the capstone course in the PLTW high school engineering program. It is an open-ended engineering research course in which students work in teams to design and develop an original solution to a well-defined and justified open-ended problem by applying an engineering design process. Students will perform research to select, define, and justify a problem. After carefully defining the design requirements and creating multiple solution approaches, teams of students select an approach, create, and test their solution prototype. Student teams will present and defend their original solution to an outside panel. While progressing through the engineering design process, students will work closely with experts and will continually hone their organizational, communication and interpersonal skills, their creative and problem solving abilities, and their understanding of the design process.

**Full Year 6 credits**

**Career and Technical Education Department  
Sequence Charts for Grades 9 – 12**

<b>Information Support Services and Networking</b>			
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Business/Computer Applications</b>	H6323 Computer Applications	H6323 Computer Applications H6343 Advanced Computer Applications	H6323 Computer Applications H6343 Advanced Computer Applications

<b>Engineering</b>			
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Engineering</b>	H6400 Introduction to Engineering Design H6401 Principles of Engineering	H6400 Introduction to Engineering Design H6401 Principles of Engineering H6402 Digital Electronics	H6400 Introduction to Engineering Design H6401 Principles of Engineering H6402 Digital Electronics <a href="#">H6405 Engineering Design and Development Capstone</a>

<b>Marketing and Finance</b>			
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Administrative / Financial</b>		H6360 Accounting I L1 H6373 Personal Finance/ Economics L1	H6360 Accounting I H6380 Accounting II H6373 Personal Finance/ Economics

<b>Culinary Arts</b>			
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Food Services</b>	6503 Foods & Nutrition	6503 Foods & Nutrition 6513 Food Services	6513 Food Services 6520 Food Services / Hospitality 6503 Foods & Nutrition

<b>Early Childhood Education</b>			
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Child Development</b>		6600 Introduction to Child Development	6600 Introduction to Child Development 6610 Adv. Child Devel.

<b>Radio and Television Broadcasting</b>			
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	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Media, Video and Film Production</b>	H6884 Television and News Production  H6963 Documentary Production	H6983 Radio Broadcasting  H6884 Television and News Production  H6963 Documentary Production  H6893 Multiple - Camera Production	H6983 Radio Broadcasting  H6884 Television and News Production  H6963 Documentary Production  H6893 Multiple - Camera Production  <b>H6985 Advanced Radio/Television Broadcast/Production/Management Capstone</b>

<b>Carpentry</b>			
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Construction Education</b>	H6223 Wood	H6223 Wood  H6250 Advanced Wood	H6223 Wood  H6250 Advanced Wood

<b>Digital Media</b>			
	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11/12</b>
<b>Graphics</b>	H7043 Graphic Design	H7043 Graphic Design	H7043 Graphic Design  H7033 Graphics II/Web Design

## Physical Education and Health

The physical education and health curriculum offers students a variety of opportunities to enhance their understanding of social-emotional, physical, and mental health. Courses are designed to address the Massachusetts Comprehensive Health Curriculum Frameworks as well as national standards. The physical education and health program seeks to enhance health literacy by promoting the development of skills and knowledge necessary to make healthy choices throughout life.

### **H8543 Health (Grade 9)**

Health Education focuses on the relationship that exists between physical, mental and social health. Topics include decision making, self-esteem, relationships, nutrition, consumer health, substance abuse and prevention, body systems, sex education, and fitness. Through discussion, lecture, and project based learning, students will develop an understanding of health related decision- making and its effects on individuals and peers.

**Semester Course: 3 credits**

### ~~H8544 Current Topics in Health (Grade 11 & 12 Elective)~~

~~This course is open as an elective to all Juniors and Seniors. Students in this class will delve deep into the topics of consumer health, community health, infectious disease prevention, mental health, and other current health topics. Students taking this class will also have the opportunity to be first aid certified through the American Heart Association.~~

~~Semester Course: 3 credits~~

### **H8513 Freshman Physical Education**

Freshman Physical Education is a semester long class that alternates semesters with Health. This class will focus on fitness, team sports, and challenge activities using the Project Adventure curriculum. Students will learn how to create and use a personal fitness plan using a variety of fitness equipment. Students will work cooperatively in a variety of activities to develop communication skills, critical thinking skills, and psychomotor skills.

**Semester Course: 3 credits**

### **H8593 Physical Education (Grades 10-12)**

This course will offer students the opportunity to engage in a variety of team sports, racket sports, individual activities, and lifetime activities. Possible activities include: lacrosse, golf, flag football, fencing, badminton, tchoukball, tennis and volleyball. Lessons will focus on cooperation, sportsmanship, interpersonal skills, and communication. Students will also continue to improve and assess their personal fitness through a variety of means.

**Semester Course: 3 credits**

### ~~H8563 Project Adventure (Grades 10-12)~~

~~The Project Adventure course will offer challenges of low and high elements and will include adventure games, ropes and wall climbing. Achieving fitness through adventure is the main objective of this course. Many of the activities require students to utilize interpersonal and social skills, goal setting and problem solving skills. Students will be exposed to activities that will develop the understanding that enjoyment, creativity and self-expression are important life-enhancing experiences and found in Project Adventure activities. Fitness will be improved while having FUN. Students will also have access to the HS fitness center during this physical education course.~~

~~Semester Course: 3 credits~~

### **H8563 Project Adventure (Grades 10-12)**

Project Adventure is a student-centered course that focuses on team building, cooperation, communication skills, problem solving, critical thinking, and leadership development. The course will involve tasks and activities that challenge students both physically and mentally. Students participating in this unique course will have the opportunity to build on some of the adventure elements from Freshman Physical Education, including high and low elements.

**Semester Course: 3 credits**

### **H8553 Senior Physical Education (Grade 12)**

This course will focus on an appreciation of lifelong health and fitness ~~and increased physical activity levels~~ beyond the high school years. Students will be given some choice in activities through the sport education model which promotes learning by placing students ~~at the center of their learning experience~~ ~~other leadership roles~~. Archery, CPR, ~~outdoor pursuit~~, yoga, and other recreational experiences are all curricula areas unique to this course.

**Semester Course: 3 credits**

**H8413 Dance and Rhythmic Activities (Grades 10 -12)**

This course is a collaboration between the Fine and Performing Arts Department and the Health and Physical Education Department and will be open to students in grades 10 through 12. The class will introduce students to the basic elements of a variety of dance forms such as modern dance, folk dance, and cultural dance. The class will use a hands-on approach to explore the connection between rhythm, movement, and music. This is a semester long course that fulfills the yearly physical education requirement.

**Semester Course: 3 credits**

**H8200 Reach Out Physical Education (Grades 10-12)**

Reach Out Physical Education is a co-taught class that offers sophomores, juniors and seniors an opportunity to be peer mentors in the physical education setting. The class will offer a variety of physical education activities in an inclusion setting. The Reach Out PE class will work on the same objectives as PE 10-12. This is an opportunity for students to learn and grow together while working on communication skills, leadership skills, and social skills, all while achieving a healthy and active lifestyle.

**Semester Course: 3 credits**

**H8595 Female Empowerment\***

Junior and Senior female students will explore a variety of ways to build their confidence and empower themselves through topics such as self-defense, dance, fitness, yoga, stress management, CPR, and other health related topics. Students who enroll will participate in an intense self defense unit (Rape Aggression Defense) which will include a simulation component.

\*Seniors will be given priority in enrollment.

**Semester Course: 3 credits**

# Science

In keeping with the need for increased scientific literacy, the Science Department currently offers a variety of courses in physical science, biology, chemistry, and physics. In addition to the grade 9 and 10 programs a number of popular elective science courses are offered for grades 11 and 12 including astronomy, biology, chemistry, anatomy and physiology, physics and environmental science. It is our goal that students develop an appreciation of the natural world while better understanding the world in which they live. All science courses have laboratory exercises, readings, writing assignments and projects as well as individual and group work. Students are challenged to produce work of high quality while working in a safe and collaborative manner. Good behavior and the ability to follow directions are important aspects of work in the science classroom. Students should select courses that will best satisfy their individual needs and interests while giving consideration to appropriate course level and career plans. Prerequisites have been indicated to assist students in course selection as several courses are offered in a sequence and in many courses there are significant mathematical requirements. The science curriculum has been organized in concert with the Mass. Science Frameworks, the tenets of Project 2061 of the American Association for the Advancement of Science and the Mission Statement of Watertown High School.

## **H4000 Introduction to Honors Physics (Grade 9)**

(Prerequisite: Acceptable score on **portfolio**; A- end-of-year grade in both math and science, MCAS results, teacher recommendations (math and science), **entrance exam** and permission of the Science Curriculum Coordinator.)

This hands-on physics course is designed for students entering WHS with a rigorous application of math (algebra I and trigonometry) at an accelerated pace. Students will explore a wide range of concepts including measurement, motion, forces, energy, momentum, waves, sound, light, electricity, magnetism, electromagnetism, matter, heat and the atom. Students will apply theories and concepts through a variety of laboratories and quarterly projects. This is the first course for students expecting to continue on an advanced-placement track in subsequent years. Successful students will advocate for themselves inside and outside of the classroom, are self-motivated learners and have high expectations for themselves and their peers. It is expected that all students enrolled in this course will take the Physics MCAS exam at the end of the year.

**Full Year: 6 credits**

## **H4005 Physics with Algebra (Grade 9)**

(Prerequisite: Acceptable score on portfolio; B+ or higher end-of-year grade in both math and science, teacher recommendations (math and science), **entrance exam** and permission of the Science Curriculum Coordinator.)

This hands-on physics course is designed for students entering WHS with a strong application of math (algebra I and trigonometry) where students will be expected to manipulate algebraic equations as well as analyze graphical data while moving at a significant pace. Students will explore a wide range of topics including constant accelerated motion, forces, energy, momentum, waves, sound, light, electricity, magnetism, electromagnetism, matter, heat, and the atom. Students will work to understand the problem solving process, take data and apply theories and concepts in the laboratory setting, and engage in quarterly projects. This course is the first course for students wanting to demonstrate their ability for possible placement into the advanced placement track in subsequent years. Successful students will work to stay current with the course, advocate for themselves both inside and outside the classroom, are self-motivated learners and have high expectations for themselves and their peers. It is expected that all students enrolled in this course will take the Physics MCAS exam at the end of the year.

**Full Year: 6 Credits**

#### **H4010 Introduction to Physics (Grade 9)**

(Prerequisite: Successful completion of Grade 8 Science; placement by middle school science and math teachers and Science Curriculum Coordinator.)

This hands-on course is designed to introduce high school students to the study of physics. Students will explore a wide range of concepts including measurement, motion, forces, energy, momentum, waves, sound, light, electricity, magnetism, electromagnetism, matter, heat and the atom. Students will apply theories and concepts through a variety of laboratories and quarterly projects in addition to reading and writing assignments. This is an MCAS course and students are expected to take the Physics MCAS exam at the end of the year.

**Full Year: 6 credits**

#### **H4040 Conceptual Physics (Grade 9)**

(Prerequisite: Successful completion of Grade 8 Science. Placement by middle school science and math teachers and Science Curriculum Coordinator.)

This hands-on course is designed to introduce high school students to the study of physics. Students will explore a wide range of concepts including measurement, motion, forces, energy, momentum, waves, sound, light, electricity, magnetism, electromagnetism, matter, heat and the atom. This course will be differentiated to meet the needs of students through development of a solid conceptual understanding of physics prior to applying the physics to complex problem solving. This course is geared to developing students' conceptual understanding and eliminating the need for complex mathematical understanding. This is an MCAS course and students are expected to take the Physics MCAS exam at the end of the year.

**Full Year: 6 credits**

#### **H4140 Foundations of Biology (L2)**

(Prerequisite: Placement from ESL teacher and Science Curriculum Coordinator.)

This course serves as the introductory high school science course for English Language Learners (ELLs) who anticipate needing two years of biology before mastery. It is the first part of a two-year sequence designed to provide students with an overview of the living world. Major emphasis is given to cells, genetics, ecology and possibly anatomy and physiology. Projects are conducted to supplement each topic.

**Full Year: 6 credits**

#### **H4510 AP Biology (Grades 11 and 12)**

(Prerequisites: (1) B- or above in Honors Biology AND B- or above in Honors Chemistry OR (2) A- or above in Level 1 Biology AND A- or above in Level Chemistry OR (3) B- or above in Honors Chemistry AND B- or above in an AP class OR (4) Permission from instructor.)

AP Biology is a college level course that prepares students for the College Board AP Biology Exam. This course focuses on the 4 Big Ideas of the AP Biology Curriculum: 1) The process of evolution drives the diversity and unity of life. 2) Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis. 3) Living systems store, retrieve, transmit, and respond to information essential to life processes. 4) Biological systems interact, and these systems and their interactions possess complex properties. Moreover, the course utilizes 8 formal lab experiences in which students are expected to ask their own questions and design experiments to answer these questions. The lab experiences are collaborative in nature and students are expected to share their findings with the rest of the class. Students should be prepared to work through lunch or after school to complete these lab sessions. This curriculum is designed to challenge students to not simply memorize biology facts, but to draw connections between all fields of biology and develop a deep understanding of biological principles. As a college level course, students are expected to be responsible for their participation in the course, both in and out of class. Students should expect to spend 45-60 minutes per day outside of school to succeed in this course. In addition, there is a large summer assignment due prior to the start of the school year.

**Full Year: 6 Credits**

#### **H4200 Honors Biology (Grades 11 and 12)**

(Prerequisite: B- or above in Honors Chemistry or A- or above in Level 1 Chemistry and B or above in Honors math or A- or above in Level 1 math as well as recommendations from current science and math teachers.)

Honors Biology is designed for capable, self-motivated students interested in a challenging, stimulating course about living organisms. The course explores, genetics, cytology, ecology, biochemistry and human biology, and approaches these fields from a complex systems perspective. Students participate in ecological field work in conjunction with the Watertown Conservation Commission, engage in computer modeling of biological systems and participate in a variety of labs, dissections, projects and readings. Students will also design and carry out their own biological experiments and investigations. This course will prepare students for the SAT II in biology and also will have students well prepared for success in AP Biology.

**Full Year: 6 credits**

#### **H4210 Biology**

(Prerequisite: Successful completion of a grade 9 science course.)

This lab course is intended for progressing science students and is designed to engage and interest students in the living world around them. Topics of this course include cellular biology, genetics, evolution, ecology and anatomy and physiology. This course is taught through a variety of engaging activities such as labs and lab reports, dissections, group projects, term projects and readings.

**Full Year: 6 credits**

#### **H4220 Transitional Biology (L2)**

(Prerequisite: Successful completion of Foundations of Biology or placement from ESL teacher and Science Curriculum Coordinator.)

This course is the second part of a two-year sequence designed to provide English Language Learners with an overview of the living world. Major emphasis is given to cells, genetics, evolution and ecology. Project and laboratory work are conducted to supplement each topic.

**Full Year: 6 credits**

#### **H4230 Introduction to Anatomy and Physiology (Grades 11 and 12)**

(Prerequisite: Successful completion of biology with a grade of B or above.)

Anatomy and Physiology is a college preparatory course open to junior and senior students who have successfully completed one year of biology and may be interested in a career in science or health-related fields. The systematic structure and functions of the human body are studied. Concepts are supported by lab activities focused in particular on medical practices. One such lab is the fetal pig dissection that acts as a capstone to the half-year course. Individual projects are stressed, which allow students to explore different disorders, treatments and current/future research in the scientific community. This course is paired with Introduction to Medical Sciences (4180). Students should register for both. This course cannot be taken by students who have already taken Anatomy and Physiology (4240).

**Semester Course: 3 credits**

#### **H4180 Introduction to Medical Sciences (Grades 11 and 12)**

(Prerequisite: Successful completion of biology with a grade of B or above. No more than five tardies and/or absences per term to student's current first period class.)

This is a multifaceted course which provides Watertown students with hands-on experience in the medical field, introduces them to the concepts of human anatomy and physiology and exposes them to the myriad of health care careers available in our community. The course curriculum is divided into 11 systems of the human body, each of which will be taught in 2 week blocks. The hands-on experiential learning experience will occur at ProSim and Mount Auburn Hospital using the case study method to reinforce the learning of anatomy and physiology.

Throughout the course students will practice science processing, decision making, problem solving and critical

thinking skills. During the hands-on learning experience, students will work in teams like healthcare professionals in the real world. The course will include an experience-based program which includes weekly one-hour trips outside of school; therefore, students must commit to being at school by 7:15 A.M. one day a week. This course is paired with Introduction to Anatomy and Physiology (4230). Students should register for both. This course cannot be taken by students who have already taken Anatomy and Physiology (H4240).

**Semester Course: 3 credits**

#### **H4240 Anatomy and Physiology (Grades 11 and 12)**

(Prerequisite: Successful completion of Biology with a grade of B or better.)

Anatomy and Physiology is a college preparatory course open to junior/senior students who have successfully completed one year of biology and may be interested in a career in science or health-related fields. The systematic structure and functions of the human body are studied. Concepts are supported by extensive lab activities, including the fetal pig dissection. Individual and class projects are stressed. This course cannot be taken by students who have already taken Introduction to Anatomy and Physiology (4230) and Introduction to Medical Sciences (4180).

**Full Year: 6 credits**

#### **H4553 Honors Biotechnology & Genetic Engineering (Fall Semester) (Grades 11 and 12)**

(Prerequisite: B- or higher in Biology or successful completion of Honors or AP Biology or permission of instructor.)

This is a project and lab focused course on biotechnology, genetic engineering, and synthetic biology. This course will focus on cutting edge concepts of DNA science: exploring genetics, genomics, bioinformatics, and epigenetics, as well as the ethics of genetic engineering. There will be lab projects involving PCR, bacterial transformation, and the potential to work as a class on a biological design project to design a new living organism through the BioBuilder Biotech program. There may be occasional after school requirements to meet with other BioBuilder students at MIT.

**Semester Course: 3 credits**

#### **H4563 Complexity (Spring Semester) (Grades 11 and 12)**

(Prerequisite: 2 years of science)

What do swarms of bees, soccer games, bacteria cells, the stock market, traffic jams and weather patterns all have in common? They are all complex systems. In a complex system we may be able to understand the behavior of the parts of a system; however, when they interact, the results can be unpredictable. The science of complexity shows that similar rules seem to govern systems that may at first seem completely unrelated. In this hands-on project-based class we will be building a variety of models of complex systems and finding the underlying rules that can be found in each. This class will involve building models using Hexbugs, slime-molds, computers, and each other. This class is tons of fun and will change how you see the world!

**Semester Course: 3 credits**

#### **H4701 AP Environmental Science (Grades ~~11 and~~ 12)**

(Prerequisites: B or above in Honors Chemistry and Honors Biology or A- or above in Level 1 Chemistry and Level 1 Biology. Students must have completed both a Biology class and a Chemistry class prior to enrolling in AP Environmental Science (APES)). ~~or have completed one of these classes and be enrolled in the other one of the classes in tandem with APES).~~

AP Environmental Science is designed for driven, ecologically minded students who are interested in a challenging, college level curriculum. This laboratory course focuses on the biosphere, which includes the interrelationships of both living and nonliving components of the natural world. Students will analyze environmental problems both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving and/or preventing them. This course also requires students to be

able to perform in-depth laboratory experiments and to subsequently write formal laboratory reports. [Students who enroll in this course are expected to take the AP Environmental Science exam in the spring.](#)

**Full Year: 6 Credits**

### **H4702 Honors Environmental Science (Grades 11 and 12)**

(Prerequisites: B or above in Honors Chemistry or Honors Biology and A- or above in Level 1 Chemistry or Level 1 Biology. Students must have completed both a Biology class and a Chemistry class prior to enrolling in Honors Environmental Science, or have completed one of these classes and be enrolled in the other one of these classes in tandem with this course.)

Honors Environmental Science is designed for motivated students who are interested in exploring how humans interact with the biosphere. The course will incorporate a range of resources, including emerging scientific research and current news events. These sources will focus on issues such as global climate change, public health, environmental justice, species conservation, pollution, as well as political and economic influences on the environment. Students will be expected to participate in a range of projects and discussions that focus on mitigating human impacts on the environment, and increasing awareness about ecological issues. Some projects may include altering or recording every day habits such as trash generation, or monitoring composting and hydroponic projects. Students who take Honors Environmental Science cannot take AP Environmental Science for credit in future years.

**Full Year: 6 Credits**

### **H4450 AP Chemistry**

(Prerequisites: Successful completion of Honors Chemistry with a grade of B+ or above and grade of B+ or above in Honors math through Algebra II or Precalculus or grade of A- or above in Level 1 math through Algebra II or Precalculus. \*No single term grade for math or science may be below a B- for the current year. Enrollment in Precalculus, Statistics or Calculus for the upcoming year.)

AP Chemistry is an intensive survey of topics and laboratory experiences customarily covered in a first-year college inorganic chemistry course. The course provides a review of and builds upon the topics covered in Honors Chemistry with special attention given to all aspects of equilibrium, kinetics, reduction-oxidation reactions and thermodynamics. Laboratory activities focus on the descriptive and quantitative aspects of the topics and many will include guided inquiry. Students who take this course must accept the challenge of very demanding work all year, and are expected to take the AP exam in May as the appropriate conclusion to their efforts. Before school laboratory sessions or laboratory sessions held during the lunch period are a required part of this course. A desire and ability to perform a high level of mathematics is required to succeed in this course.

**Full Year: 6 credits**

### **H4300 Honors Chemistry**

(Prerequisites: Grade of B or above in grade 9 Honors Physics or grade of A- or above in Level 1 Biology and grade of B or above in Honors math through Geometry or Algebra II or grade of A- or above in Level 1 math through Geometry or Algebra II. \*No single term grade for math or science may be below B- for the current year. Enrollment in Algebra II or Precalculus for the upcoming year.)

Honors Chemistry is an intensive study of the theoretical and practical aspects of chemistry. Topics include the measurement of matter, atomic structure, quantum theory, periodic properties, energy relationships in reactions, descriptions of reactions at the molecular level, classes of reactions and nuclear chemistry. Laboratory work is an integral part of the course. The desire and ability to do a high level of mathematics will be required to succeed in the course. This course is appropriate for students considering a premedical, science or engineering major in college.

**Full Year: 6 credits**

### **H4310 Chemistry**

(Prerequisite: Successful completion of Grade 9 physics and/or biology and enrollment in or completion of Algebra II. Current year to date math average of a C+ or above.)

This course is a general survey of topics related to the descriptive, mathematical and theoretical aspects of materials. The course is designed to give the student the skills and concepts necessary for further study after high school. Topics include scientific measurement and problem solving, atomic theory and structure, the quantitative aspects of reactions, the various types of chemical reactions, acid-base theories and nuclear chemistry. Laboratory work and mathematical applications are an integral part of the course.

**Full Year: 6 credits**

### **H4320 Applied Chemistry (L2)**

(Prerequisite: Successful completion of physics and biology. Successful completion of Algebra I.)

This course is designed to be a hands-on third science course for students who have successfully completed a physical science course (physics or engineering) and biology. The course will cover topics from chemistry, physical science and math. Students are expected to solve simple algebraic problems independently. Topics will focus on common chemicals and related practical applications. Each topic will be explored through class activities, group and individual projects and labs.

**Full Year: 6 credits**

### **H4601 AP Physics 1 (Grades 10, 11 and 12)**

(Prerequisites: B or higher in Honors Algebra II or A- or higher in Level 1 Algebra II or math teacher approval; B or higher in Honors Introduction to Physics or A- or higher in Level 1 Introduction to Physics or physics teacher approval. Co-requisite: Minimum of Honors Precalculus or math teacher approval.)

This course provides a systemic introduction to the main principles of physics and emphasizes the development of problem-solving ability. Newtonian mechanics (to include kinematics, Newton's Laws of Motion, work, power and energy, linear momentum, circular motion and rotation, oscillations and gravitation), electricity and waves. The course will include a significant amount of time devoted to laboratory investigations which will include student engagement in the practice of science through experimenting, analyzing, making conjectures and arguments and solving problems in a collaborative setting where students correct and monitor their progress toward an academic goal. A quarterly project may be used in lieu of quarterly comprehensive exams. Completion of the course allows the student to take the Advanced Placement Physics 1 exam. This course is the equivalent to a first-semester college course in algebra-based physics.

**Full Year: 6 credits**

### **H4602 AP Physics C (Grades 11 and 12)**

(Prerequisite: B or higher in precalculus, B+ or higher in previous year's science course.

Co-requisite: AP Calculus.)

Physics C is a college level course that covers mechanics, classical electricity and magnetism. These topics are covered in great depth with analytical and mathematical sophistication, including calculus applications. Mechanics is taught in the first semester and encompasses kinematics, Newton's laws of motion, work, energy, power, systems of particles, linear momentum, circular motion and rotation, oscillations, and gravitation. Electricity and magnetism are taught in the second semester and include electrostatics, conductors, capacitors, dielectrics, electric circuits, magnetic fields, and electromagnetism. Laboratory experience is an integral part of this course. This course is suitable for students planning to specialize in a physical science or in engineering at the collegiate level. At the conclusion of this course, students will be prepared to take both the AP Physics C mechanics exam and the AP Physics C electricity and magnetism exam.

**Full Year: 6 credits**

### **H4412 Physics Applications**

(Prerequisite: Successful completion of two of the three traditional lab-based science courses (physics, chemistry, and biology; B or higher in Algebra II.)

Physics is the study of forces and the motion of objects in the physical world, electricity and energy that lights that world, and ‘Strange’ flavors of quarks. So many of our everyday encounters, such as driving a car, playing a sport, creating music both physically and digitally, make physics one of the most relevant sciences. The theories, laws, and principles of physics can explain and predict the behavior of macroscopic and microscopic objects, but often times this science discipline is viewed as inaccessible to students. Frequently, physics is improperly viewed as a set of equations and variables, or that it is a class meant to be treated like another math class. This couldn’t be further from the truth! While physics does use math to model the physical world, the math is a tool and not the end in physics.

In Physics Applications, we employ an approach to teaching physics through the Modeling Method. This is a very hands-on, project-based, and student-centered course to model different relevant areas in physics today. Instead of relying solely on lectures and textbooks, this will put students in the driver’s seat of their learning. Expectations include:

- Explore scenarios that represent actual events in the physical world.
- Design experiments to test certain conditions or outcomes.
- Develop predictive or explanatory models that can be applied to the physics world.
- Construct their own understanding through experience of the laws of physics.
- Examine cutting edge theories that touch into the realm of quantum mechanics, string theory, and relativity.

**Full Year: 6 Credits**

### **H4790 Astronomy (Grade 12)**

(Prerequisite: Successful completion of algebra.)

This science elective acquaints students with the observable universe. This course has a math requirement and will require students to manipulate algebraic equations such as Newton’s Law of Gravitation and Kepler’s Laws.

Students will learn to distinguish between planets, moons, stars and galaxies. The course will also spend a unit discussing earth science. The fourth term will focus on recent discoveries in the field and students will spend time on a research project at the end of the term.

**Full Year: 6 credits**

### **H9483 Language Based Physics (Grade 9)**

(Prerequisite: Special Education Team Recommendation.)

The Language Based Physics course is intended for ninth grade students and will prepare them for the MCAS Science & Technology/Engineering Physics Exam. It is a lab-based course that will include the following topics: measurement, motion, forces, energy, momentum, waves, sound, light, electricity, magnetism, electromagnetism, matter, heat, and the atom. The lab element of this class will include frequent laboratory experiments, hands-on activities, and teacher-led demonstrations. Students will be expected to work individually and cooperatively to investigate the course topics through practical applications. Students will develop and expand their conceptual understanding of physics in conjunction with their problem solving and mathematical skills.

**Full Year: 6 credits**

### **H9484 Language Based Biology (Grade 10)**

(Prerequisite: Special Education Team Recommendation.)

The Language Based Biology course is intended for students who have successfully completed the Language Based Physics class. It is a lab-based course that will include the following topics: cellular biology, genetics, evolution, ecology, and anatomy and physiology. The lab element of this class will include frequent laboratory

experiments, hands-on activities, and teacher-led demonstrations. Students will be expected to work individually and cooperatively to investigate the course topics through practical applications.

**Full Year: 6 credits**

#### **H9482 Language Based Chemistry (Grade 11)**

(Prerequisite: Special Education Team Recommendation.)

The Language Based Chemistry course is intended for students who have successfully completed the Language Based Biology class. It is a lab-based course that will cover topics from chemistry, physical science, and math including a focus on common chemicals and related practical applications. Students will be expected to solve simple algebraic problems independently. The lab element of this class will include frequent laboratory experiments, hands-on activities, and teacher-led demonstrations. Students will be expected to work individually and cooperatively to investigate the course topics through practical applications.

**Full Year: 6 credits**

#### **H4015 MCAS Preparation – Science Only (Unleveled)**

This course provides a review of fundamental skills and concepts required to pass the MCAS examination in science which is a graduation requirement.

**Semester Course: 3 credits**

#### **H4642 MCAS Preparation Physics – Science Only (Unleveled) (Spring Semester)**

This course provides a review of fundamental skills and concepts required to pass the MCAS examination in physics. In order to graduate, students must pass one of the MCAS Science/Technology exams. Students will be recommended for this course by their current physics teacher based on their performance during the first semester of the current school year.

**Semester Course: 3 credits**

Science Sequence Chart Grades 9 – 12			
Grade 9	Grade 10	Grade 11	Grade 12
Hon. Physics Physics with Algebra	Hon Chemistry Chemistry	AP Biology Hon Biology Biology Hon Environ. Science	AP Physics-1 AP Physics-C AP Chemistry AP Biology AP Environ. Science Hon Environ. Science Physics Applications ✚ Astronomy ✚ Anatomy & Phys. ✚ Intro. to Anat. & Phys. and Intro. to Medical Sciences ✚
Physics with Algebra Introduction to Physics ✚	Hon Chemistry Chemistry ✚ Biology ✚	Hon Biology Hon Chemistry H Chemistry ✚ Anatomy & Physiology ✚	AP Physics-1 AP Physics-C AP Chemistry AP Biology AP Environ. Science Hon Environ. Science Physics Applications ✚ Astronomy ✚ Anatomy & Physi. ✚ Intro. to Anat. & Physi. & Intro. to Medical Sciences ✚
Conceptual Physics ✚	Biology ✚	Chemistry ✚ Applied Chemistry ✚	Physics Applications ✚ Astronomy ✚ Anatomy & Phys. ✚ Intro. to Anat. & Physi. and Intro. to Medical Sciences ✚
Foundations of Biology L2	Transitional Biology L2	Chemistry ✚ Applied Chemistry ✚	Hon Environ. Science Physics Applications ✚ Astronomy ✚

			Anat. & Physi. <del>L1</del> Intro. to Anat. & Physi. and Intro. to Medical Sciences <del>L1</del>
Transitional Biology <del>L2</del>	Chemistry <del>L1</del> Applied Chemistry <del>L2</del>	Anatomy & Physi. <del>L1</del> Intro. to Anat. & Physi. and Intro. to Medical Sciences <del>L1</del>	Hon Environ. Science Physics Applications <del>L1</del> Astronomy <del>L1</del>
LB Physics	LB Biology	LB Chemistry	Physics Applications Astronomy

*In special circumstances the Science Coordinator may approve exceptions to the above.*

# Special Education Services

The Watertown Public Schools Special Education Department offers a wide variety of programs. The goal of the Special Education Department is to enable students to access the general education curriculum. For all students deemed eligible, and on an Individual Education Program (I.E.P.), instruction is individualized taking into consideration each child's unique learning style. Programming is developed which allows the student to work to their potential in the least restrictive environment. Selection of the appropriate programs is done through the TEAM process and is based on individual needs as developed in the educational plan. Students who receive special education services work closely with their liaisons to ensure that their individual education program complies with standards based instruction and the curriculum frameworks.

The programs offered within the Special Education Program vary with the needs of the students and are subject to change based on the needs of our students. Our current programs include:

- Academic Support Program
- Connections Program
- Counseling & Academic Program (CAP)
- Inclusion Program
- Integrated Services Program (ISP)
- Language Based Program
- Learning Experiences Adult Program (LEAP)
- Learning Support Program (LSP)
- Transition Program
- Related Services

## **Academic Support Program**

The Academic Support program offers daily support to students in grades 9 through 12 in all academic areas. The program works in collaboration with teachers, guidance counselors, administration, parents, therapists, and others to provide support to students with IEPs as well as providing Tier 2 intervention to other WHS students in need of additional support.

### **H9703 Academic Support**

### **H9713 Academic Support**

The Academic Support course assists students with assignments, homework, projects, test preparation, organization, as well as other essential academic skills for success. The Guidance Department, parents, or other teachers, as well as the Special Education Team usually refer students to this program.

**Semester Course: 3 Credits**

## **Connections Program**

The Connections Program provides daily support for students identified with a neurodevelopmental disability and who demonstrate the need for direct teaching in, but not limited to, a small group environment. The Connections Program provides small group structured academic and social environments which incorporate principles of Applied Behavioral Analysis (ABA) along with emotional and social support. Students may receive content area (English, Mathematics, History, Science, or Social Pragmatics) instruction in a substantially separate classroom in small group and/or individual setting. Recommendations for participation in the general education setting may be made based on student academic, behavioral, and social performance, level of academic understanding, and

student readiness. Additionally, staff implements activities and collect data daily regarding individual student progress based on their Individualized Education Program (IEP) goals.

**Connections Program**

	<b>English</b>	<b>History</b>	<b>Mathematics</b>	<b>Science</b>
	Connections English 9 Connections English 10 Connections English 11 Connections English 12	Connections History 9 Connections History 10 Connections History 11 Connections History 12	Connections Math 9 Connections Math 10 Connections Math 11 Connections Math 12	Connections Science 9 Connections Science 10 Connections Science 11 Connections Science 12
<b>Length</b>	Full year	Full year	Full year	Full year
<b>Credits</b>	6 credits	6 credits	6 credits	6 credits

**H9557 Connections Resource**

*(Prerequisite: Special Education Team Recommendation)*

The Connections Resource support program offers daily support by a special education teacher and/or an instructional assistant to students in all academic areas, social pragmatics, life skills, and behavioral programs. Collaboration with the student, special education teacher, instructional assistant, counselors, related service providers, parents, etc. is an integral part of the Connections Resource support program.

**Full Year: 6 credits**

**Semester Course: 3 credits**

**H9553 Connections English**

*(Prerequisite: Special Education Team Recommendation)*

The Connections Program is intended for students who need significant modifications in academic, behavior, and/or social programs. Students within the Connections Program rely on Applied Behavior Analysis to support them throughout their day. The team decides upon specific curriculum in the area of English, which is highly individualized to their student’s needs. Connections students may be within the general inclusion classes with instructional assistant support and case manager supervision, but also might spend time in smaller groups receiving academic and social instruction. Teachers and instructional assistants within the Connections Program receive consultation from a BCBA, speech language-pathologist, reading specialist, counselors, and occupational therapists to create individualized programs to suit the student’s needs. In addition, speech and language-pathologist and reading specialist co-teach to provide specialized instructional support.

**Full Year: 6 credits**

**H9554 Connections Math**

*(Prerequisite: Special Education Team Recommendation)*

The Connections Program is intended for students who need significant modifications in academic, behavior, and/or social programs. Students within the Connections Program rely on Applied Behavior Analysis to support them throughout their day. The team decides upon specific curriculum in the area of Math, which is highly individualized to their student’s needs. Connections students may be within the general inclusion classes with

instructional assistant support and case manager supervision, but also might spend time in smaller groups receiving academic and social instruction. Teachers and instructional assistants within the Connections Program receive consultation from a BCBA, counselors, and occupational therapists to create individualized programs to suit the student's needs.

**Full Year: 6 credits**

### **H9555 Connections Science**

*(Prerequisite: Special Education Team Recommendation)*

The Connections Program is intended for students who need significant modifications in academic, behavior, and/or social programs. Students within the Connections Program rely on Applied Behavior Analysis to support them throughout their day. The team decides upon specific curriculum in the area of Science, which is highly individualized to their student's needs. Connections students may be within the general inclusion classes with instructional assistant support and case manager supervision, but also might spend time in smaller groups receiving academic and social instruction. Teachers and instructional assistants within the Connections Program receive consultation from a BCBA, speech language-pathologist, reading specialist, counselors, and occupational therapists to create individualized programs to suit the student's needs.

**Full Year: 6 credits**

### **H9556 Connections History**

*(Prerequisite: Special Education Team Recommendation)*

The Connections Program is intended for students who need significant modifications in academic, behavior, and/or social programs. Students within the Connections Program rely on Applied Behavior Analysis to support them throughout their day. The team decides upon specific curriculum in the area of History, which is highly individualized to their student's needs. Connections students may be within the general inclusion classes with instructional assistant support and case manager supervision, but also might spend time in smaller groups receiving academic and social instruction. Teachers and instructional assistants within the Connections Program receive consultation from a BCBA, speech language-pathologist, reading specialist, counselors, and occupational therapists to create individualized programs to suit the student's needs.

**Full Year: 6 credits**

## **Counseling & Academic Program (CAP)**

The Counseling & Academic Program (CAP) provides daily support by a special education teacher and, at times, an instructional assistant to students in grades 9 through 12. CAP is designed to service students with emotional or behavioral disabilities. CAP promotes the development of both effective learning strategies and emotional coping skills through one-to-one support, explicit teaching in executive functioning skills and therapeutic intervention. Students generally participate in all regular classes. On occasion, and depending on the individual need of the child, extended stays within the CAP setting might be warranted. These decisions are Team driven and must be approved through a signed Individualized Education Program (IEP) or signed Amendment permitting a least restrictive placement. Additionally, collaboration with the student, general education teachers, special education teachers, guidance counselors, administration, parents, therapists, etc. is an essential part of CAP. The CAP Program is supported by a full-time special education teacher.

### **H9903 Counseling & Academic Program**

### **H9913 Counseling & Academic Program**

*(Prerequisite: Special Education Team Recommendation)*

The Counseling & Academic Program (CAP) course assists students with academic, emotional, and behavior support for academic and social success within the school environment. CAP provides daily check-ins, as well as respite for students to ensure success in school. CAP also assists students with assignments, homework, projects, test preparation, organization, as well as other academic, emotional, and behavioral skills for success.

**Semester Course: 3 credits**

## **Inclusion Program**

The Inclusion Program offers support by an instructional assistant to students in grades 9 through 12 in a variety of general education academic and elective classes. Instructional assistants provide additional support 3 classes of a 7 day cycle. Every effort is made to support students 6 classes of a day cycle, including IEP accommodations, within the general education classrooms to help students access and understand grade level curricula. Collaboration with general education teachers, special education teachers, guidance counselors, administration, therapists, etc. is an important aspect of support given to students in the Inclusion Program.

## **Integrated Services Program (ISP)**

The Integrated Services Program (ISP) provides daily support by a special education teacher and, at times, an instructional assistant to serve students in grades 9 through 12. ISP is designed to service students with emotional disabilities and/or behavioral challenges who have difficulty participating in general education classes with support and accommodations. ISP provides small, structured academic environments that include a behavior management system and emotional support. Students are offered access to clinical staff and respite space as needed. Students can receive content area classes (English, Mathematics, History, or Science) in the ISP program; however, students also have access to general education classes. Recommendations for participation in the general education setting may be made based on student academic, behavioral, and social performance, level of academic understanding, and student readiness. Length of placement in ISP is a Team driven decision and must be approved through a signed Individualized Education Program (IEP) or signed Amendment permitting a least restrictive placement. Additionally, collaboration with the student, general education teachers, special education teachers, guidance counselors, administration, parents, therapists, etc. is an essential part of ISP.

### Integrated Service Program

	<b>English</b>	<b>History</b>	<b>Mathematics</b>	<b>Science</b>
	ISP English 9 ISP English 10 ISP English 11 ISP English 12	ISP US History I ISP US History II ISP World History	ISP Algebra ISP Geometry ISP Intermediate Algebra ISP Topics in Statistics	ISP Physics ISP Biology ISP Biology II ISP Anatomy and Physiology ISP Environmental Science
<b>Length</b>	Full Year	Full Year	Full Year	Full Year
<b>Credits</b>	6 credits	6 credits	6 credits	6 credits

#### **H9570 ISP English 9**

#### **H9571 ISP English 10**

#### **H9572 ISP English 11**

#### **H9573 ISP English 12**

*(Prerequisite: Special Education Team Recommendation)*

The ISP English courses are designed to support a small group of students who have emotional or behavioral challenges to strengthen literacy skills. Students are taught strategies for improving reading comprehension through the use of short stories, poetry, novels, and plays. Additionally, classes include instruction in all steps of the writing process and involve the development of written work of various genres. Computer applications/technology are used to augment each student's verbal and written language.

**Full Year: 6 credits**

#### **H9576 ISP World History**

*(Prerequisite: Special Education Team Recommendation)*

The ISP World History course is designed to support a small group of students who have emotional or behavioral challenges to increase each student's ability to achieve understanding of the interrelationship of European history with the development of Africa, Asia and the Americas.

**Full Year: 6 credits**

#### **H9574 ISP US History I**

*(Prerequisite: Special Education Team Recommendation)*

The ISP US History I course is designed to support a small group of students who have emotional or behavioral challenges to increase each student's ability to achieve understanding of the philosophy of democratic government and the development of the modern American governmental system (1215-1868).

**Full Year: 6 credits**



### **H9575 ISP US History II**

***(Prerequisite: Special Education Team Recommendation)***

The ISP US History II course is designed to support a small group of students who have emotional or behavioral challenges to increase each student's ability to achieve understanding of the application of the principles of American government to different groups of people and through various world and national movements and events, from the antebellum period to modern times (1830-present). Additionally, students will follow major events and movements in American history (starting in the 1830's) and support and link those events to important world happenings.

**Full Year: 6 credits**

### **H9578 ISP Geometry**

***(Prerequisite: Special Education Team Recommendation)***

The ISP Geometry course is designed to support a small group of students who have emotional or behavioral challenges to strengthen students' math skills and prepare for the MCAS exam. Through exploration of real world applications, students will learn about the mathematical properties of angles, polygons, congruency, quadrilaterals and triangles, and 3 dimensional figures. In addition they will learn to calculate perimeter, area and volume. Students will also review algebraic concepts and the graphing of linear equations. Students are encouraged to think about their world 'geometrically' and mathematically and make connections between what they learn in the classroom and what exists outside the classroom. Computer applications/technology will be used when appropriate. MCAS practice will consist of practice written exams as well as computer application programs.

**Full Year: 6 credits**

### **H9577 ISP Algebra**

***(Prerequisite: Special Education Team Recommendation)***

The ISP Algebra course is designed to support a small group of students who have emotional or behavioral challenges to increase each student's ability to strengthen and extend students' computational skills. Through the investigation of real world applications, students will create models for equations, solve word problems, assess absolute value and the interplay of positive and negative numbers through the number line, and graph and solve linear equations. In addition concepts of rational/irrational numbers, exponents, radicals, and factoring will be explored. Problem solving strategies are a significant portion of the course. Students will also review concepts of geometry as applied to algebra. Students are encouraged to think about their world mathematically and make connections between what they learn in the classroom and what exists outside the classroom. Computer applications/technology will be used when appropriate.

**Full Year: 6 credits**

### **H9579 ISP Intermediate Algebra**

***(Prerequisite: Special Education Team Recommendation)***

The ISP Intermediate Algebra course is designed to support a small group of students who have emotional or behavioral challenges to increase each student's ability to strengthen math skills in algebra, learning about complex problem-solving, graphing and solving linear equations and inequalities, recording and analyzing data, factoring, and a sampling of business math. Word problems are a significant portion of the course. Students are encouraged to think about the mathematics they may need to use in the working world and make connections between what they learn in the classroom and what exists outside the classroom. Computer applications/technology will be used when appropriate.

**Full Year: 6 credits**

### **H9580 ISP Topics in Statistics**

***(Prerequisite: Special Education Team Recommendation)***

The ISP Topics in Statistics course introduces statistics to a small group of students who have emotional or behavioral challenges. Students will analyze and compare data through various representations such as histograms, stem-and-leaf plots, box and whisker plots, dot plots, tables, and pie charts. Students will find the mean, median, mode, quartiles, interquartile range, standard deviation, and percentages associated with various data sets.

**Full Year: 6 credits**

### **H9693 ISP Physics**

***(Prerequisite: Special Education Team Recommendation)***

This course is designed to support a small group of special education students who have emotional or behavioral challenges to increase each student's ability to achieve understanding of physics. This course is a general survey of topics related to the descriptive, mathematical and theoretical aspects of materials. The course is designed to give the student the skills and concepts necessary for further study after high school. This course introduces the student to the major concepts of physics that include motion, force, vectors, electricity, magnetism, light, heat, and sound. Course content emphasizes the fundamental laws and concepts that are used to describe the interaction of matter, including applications to technology and modern day living.

**Full Year: 6 credits**

### **H9694 ISP Anatomy and Physiology**

***(Prerequisite: Special Education Team Recommendation)***

This course is designed to support a small group of special education students who have emotional or behavioral challenges to increase each student's ability to achieve understanding of anatomy and physiology. This course includes a detailed study of many human body systems. Homeostatic balance, the relationship between structure and function, and the interrelationships between body systems will be a primary focus throughout the course.

**Full Year: 6 credits**

### **H9582 ISP Biology**

***(Prerequisite: Special Education Team Recommendation)***

This course is designed to support a small group of special education students who have emotional or behavioral challenges and who anticipate needing two years of biology before mastery. It is the first part of a two-year sequence that provides an overview of the living world. Major emphasis is given to cells, genetics, ecology and possibly anatomy and physiology. Projects are conducted to supplement each topic.

**Full Year: 6 credits**

### **H9583 ISP Biology II**

***(Prerequisite: Special Education Team Recommendation)***

This course is designed to support special education students who have emotional or behavioral challenges and who anticipate needing two years of biology before mastery. It is the second part of a two-year sequence that provides an overview of the living world. Major emphasis is given to cells, genetics, ecology and possibly anatomy and physiology. Projects are conducted to supplement each topic.

**Full Year: 6 credits**

## **Learning Experiences Adult Program (LEAP)**

### **Developmental Learning Program**

*(Prerequisite: Special Education Team Recommendation)*

The Developmental Life Skills Program has been created to allow student involvement and interaction within their community. This program is designed to increase student knowledge of basic academic skills as well as activities of daily living. Functional in its approach, students move toward the world of employment or continued education upon graduation. Instructional support and direct instruction in specific content areas are provided on a daily basis. Appropriate social skills are also encouraged and taught.

### **H9561 LEAP Pragmatics**

*(Prerequisite: Special Education Team Recommendation)*

The LEAP Pragmatics class offers daily support by a special education teacher and, at times, an instructional assistant to help students develop social pragmatics skills for successful daily living. Additionally, collaboration and/or co-teaching with a Speech and Language Therapist allows for small group instruction with focus on social pragmatics learning and application. Furthermore, collaboration with the student, general education teachers, special education teachers, guidance counselors, administration, parents, therapists, etc. is an integral part of the social pragmatic course.

**Full Year: 6 credits**

### **H9565 LEAP Life/Vocational Skills**

*(Prerequisite: Special Education Team Recommendation)*

The LEAP Life Skills class offers daily support by a special education teacher and, at times, an instructional assistant to help students develop functional life skills. The life skills curriculum includes activities and projects, which cover self-care, communication, healthy food habits, budgeting and money, and navigating community environments, to name a few. Additionally, students in the LEAP Life Skills are provided the opportunity to generalize their skills within the Watertown High School community when they obtain a “job” in cafeteria and participate in the Gardening Project in the courtyard. The Life Skills class also partakes in regular field trips to help transition the students into their community.

**Full Year: 6 credits**

### **H9567 LEAP English**

*(Prerequisite: Special Education Team Recommendation)*

Language skills are essential to a person’s ability to function in the world. Whether at home, in the community, or in the workforce, being able to communicate with others is paramount to success in the everyday lives of people. Devoid of these skills creates huge challenges for many people who cannot function, participate, or work effectively in their community. Life Skills English is geared to provide LEAP students with the ability to meet their individual literacy needs and be able to interact socially with their families and community members. The course will focus on these functional literacy skills. The LEAP Life Skills English Curriculum will provide the knowledge to be able to make and maintain relationships, and connect to the community by being able to read bus and train schedules, shop in a supermarket or order at a restaurant. It could be useful in maintaining one’s health by being able to communicate with medical personnel in setting up appointments, etc. The resources and materials utilized would be adapted to the needs of the individual students in the program.

**Full Year: 6 credits**

**H9563 LEAP Math***(Prerequisite: Special Education Team Recommendation)*

Basic Math skills are essential to a person’s ability to function in the world. These skills are used in our daily lives; in the home, community and in the worksite. Understanding math is vital to an individual’s success and being participants in the community. LEAP Math provides access for students to learn these vital skills. This Math Life Skills curriculum would connect students to real life in the way of; setting up and maintaining a checking and savings account, maintaining and understanding a budget, being able to spend and save money wisely, understand payroll and taxes, go shopping and pay bills. It would help in providing the know-how in renting an apartment, using credit cards, making purchases in a restaurant and having an understanding of math as related to cooking and in counting calories. The resources and materials utilized would be adapted to the needs of individual students in the program.

**Full Year: 6 credits****Learning Support Program**

The Learning Support Program provides daily support by a special education teacher for students identified with significant deficits either cognitively or developmentally and who demonstrate the need for direct teaching in, but not limited to, a small group environment. The Learning Support Program also provides structured academic and social environments that emphasize a clear behavioral component, along with emotional and social support. Students may receive content area (English, Mathematics, History, Science, or Vocational Resource) instruction in a substantially separate classroom in small groups; however, students also have access to general education classes. Recommendations for participation in the general education setting may be made based on student academic, behavioral, and social performance, level of academic understanding, and student readiness. Additionally, Learning Support staff target life skills such as study skills, independence, self-advocacy, goal setting and transitions to postsecondary activities, via curriculum, activities, and projects. Students are provided the opportunity to generalize their skills within the WHS and Watertown community via class projects, school and community jobs, and field trips.

**Learning Support Program**

	<b>English</b>	<b>History</b>	<b>Mathematics</b>	<b>Science</b>
	9210 Learning Support English 9	9220 Learning Support History US 1	9230 Learning Support Math 9	9250 Learning Support Science Bio I
	9210 Learning Support English 10	9220 Learning Support History US 2	9230 Learning Support Math 10	9250 Learning Support Science Bio II
	9210 Learning Support English 11	9220 Learning Support History Social Studies	9230 Learning Support Math 11	
	9210 Learning Support English 12		9230 Learning Support Math 12	

<b>Length</b>	Full Year	Full Year	Full Year	Full Year
<b>Credits</b>	6 Credits	6 Credits	6 Credits	6 Credits

**Recommendations may be made to schedule students in courses that deviate from this chart based on student performance and level of understanding.**

**H9210 Learning Support English**

*(Prerequisite: Special Education Team Recommendation)*

Learning Support English is a class that focuses on direct/explicit instruction and applied behavior analysis to teach vocabulary development, reading comprehension, and writing. The goal of this class is two-fold as it teaches functional literacy in addition to standards based curricula. Students within this class receive small group instruction that is highly sequential, visual, and formatted to fit executive functioning needs.

**Full Year: 6 credits**

**H9220 Learning Support Social Studies**

*(Prerequisite: Special Education Team Recommendation)*

Learning Support Social Studies is a class that focuses on direct/explicit instruction to teach pertinent concepts in American History, American Government/Civics, World Geography and Economics as well as Current Events with modifications. The goal of this class is two-fold, as it teaches the standard Social Studies curricula in addition to the skills that are necessary to participate in the democratic process.

Students in this class receive small group instruction that is highly sequential, visual, and formatted to fit executive functioning needs.

**Full Year: 6 credits**

**H9230 Learning Support Math**

*(Prerequisite: Special Education Team Recommendation)*

Basic math skills are essential to a person's ability to function in the world. These skills are used in our daily lives (home, community, and workplace). Understanding math can be a vital component to an individual's success and participation in their community. Learning Support Math provides opportunities for students to learn these necessary skills. The Learning Support Math curriculum teaches real-world math skills that help students maintain a bank account, keep a budget and pay bills. The curriculum will also walk students through the process of how to rent an apartment, pay/tip at a restaurant and use math as it relates to cooking and counting calories. The resources and materials utilized are adapted to the needs of individual students in the program. In accordance with applying life-skills math, student will also prepare to pass the 10th grade math MCAS. With thorough review and consistent practice, students will prepare for the math MCAS by completing practice tests and focusing on foundational skills of geometry, algebra and number sense.

**Full Year: 6 credits**

**H9240 Learning Support Science**

*(Prerequisite: Special Education Team Recommendation)*

Earth and Space Science: Students in the Earth and Space Science course will learn about concepts in geology, weather, oceans, and astronomy through direct instruction and hands-on labs. The course will also incorporate reading instruction within scientific texts and a peer-mentoring component. Students must be referred and approved by special education staff.

**Full Year: 6 credits**

**H9243 Learning Support Vocational Resource**

*(Prerequisite: Special Education Team Recommendation)*

The Learning Support Resource vocational program offers daily support by a special education teacher and/or an instructional assistant to students in all areas of vocational opportunities. The team decides upon specific curriculum in the area of vocation, which is highly individualized to their student's needs, as well as in school and community outings to demonstrate skills learned in the classroom. These opportunities may include working at the public library, reading buddies with elementary age students, visits to the Brigham House, recycling collection, and/or cafeteria duties. □

**Full Year: 6 credits □**  
**Semester Course: 3 credits**

### **Language Based Program**

The Language Based program offers classes that are specifically designed to meet the individual learning styles of students who have demonstrated the need for additional reinforcement in the areas of expressive and comprehensive language skills. These classes provide individual and/or small group instructional support.

Language Based classes are offered in English, History, and Mathematics.

**Language Based Program**

	<b>English</b>	<b>Mathematics</b>	<b>History</b>
<b>Grade 9</b>	9411 LB English	9470 LB Applied Algebra	9461 LB US History I
<b>Grade 10</b>	9412 LB English	9471 LB Applied Geometry	9462 LB US History II
<b>Grade 11</b>	9413 LB English	9472 LB Intermediate Algebra	9463 LB Contemporary World Issues
<b>Grade 12</b>	9414 LB English	9473 LB College Algebra	Students in Grade 12 participate in general curriculum options.
<b>Length</b>	Full Year	Full Year	Full Year
<b>Credits</b>	6 credits	6 credits	6 credits

#### **H9411 Language Based English (Grade 9)**

#### **H9412 Language Based English (Grade 10)**

#### **H9413 Language Based English (Grade 11)**

#### **H9414 Language Based English (Grade 12)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based English courses are designed to increase each student’s ability to achieve organization and coherence in a sentence, paragraph and composition as a whole. Further goals are to increase each student’s grasp of standard use of grammar, mechanics and punctuation, and to provide the student with strategies for improving their reading comprehension through direct instruction in active reading strategies and note taking skills. A variety of literature types such as short stories, poetry, and novels are utilized to engage and challenge students. Computer applications/technology are regularly used to augment students’ verbal and written language skills as well as to develop 21st century learning expectations.

**Full Year: 6 credits**

#### **H9470 Language Based Applied Algebra (Grade 9)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based Applied Algebra course will strengthen and extend students’ computational skills. Through the investigation of real world applications, students will create models for equations, solve word problems, assess absolute value and the interplay of positive and negative numbers through the number line, and graph and solve linear equations. In addition concepts of rational/irrational numbers, exponents, radicals, and factoring will be

explored. Problem solving strategies are a significant portion of the course. Students will also review concepts of geometry as applied to algebra. Students are encouraged to think about their world mathematically and make connections between what they learn in the classroom and what exists outside the classroom. Computer applications/technology will be used when appropriate.

**Full Year: 6 credits**

### **H9471 Language Based Applied Geometry (Grade 10)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based Applied Geometry course will continue to strengthen students' math skills and prepare for the MCAS exam. Through exploration of real world applications, students will learn about the mathematical properties of angles, polygons, circles, congruence, and 3 dimensional figures. In addition they will learn to calculate perimeter, area and volume. Students will also review algebraic concepts and the graphing of linear equations. Students are encouraged to think about their world 'geometrically' and mathematically and make connections between what they learn in the classroom and what exists outside the classroom. Computer applications/technology will be used when appropriate. MCAS practice will consist of practice written exams as well as computer application programs.

**Full Year: 6 credits**

### **H9472 Language Based Intermediate Algebra (Grade 11)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based Intermediate Algebra course will continue to strengthen students' math skills in algebra, learning about complex problem-solving, graphing and solving linear equations and inequalities, recording and analyzing data, factoring, and a sampling of business math. Analyzing and solving word problems are a significant portion of the course. Students are encouraged to think about the mathematics they may need to use in the working world and make connections between what they learn in the classroom and what exists outside the classroom. Computer applications/technology will be used when appropriate.

**Full Year: 6 credits**

### **H9473 Language Based College Algebra (Grade 12)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based College Algebra course will continue to strengthen students' math skills in algebra, learning about complex problem-solving. Applications of algebra are present in interesting and varied word problems, in which word problems are a significant portion of the course. Reasoning skills such as analyzing information, making conjectures and giving convincing arguments are developed throughout the course. Additionally, students are encouraged to think about the mathematics they may need to use in the working world and make connections between what they learn in the classroom and what exists outside the classroom. Technology will be used when appropriate.

**Full Year: 6 credits**

### **H9461 Language Based US History I (Grade 9)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based US History I course will focus on Roots of American History through the Civil War. This course begins with lessons examining geography terms (continent, hemisphere, sea level, prairie, peninsula, etc.), different map types such as, political and physical maps, regions and climates of the United States, and tools of history (primary and secondary sources, timelines, and archaeology). Students will cover the American Revolution and the creation of a New Republic with focus on the United States Constitution, Three Branches of Government (Executive, Legislative Judicial), and the Bill of Rights (Amendments).

**Full Year: 6 credits**

### **H9462 Language Based US History II (Grade 10)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based US History II course will focus on the Reconstruction to the Present. This course begins with Reconstruction, in which the students will discover what happened during the period of Reconstruction; will review the New West by examining the Native Americans of the Great Plains, mining and railroads, and the cattle kingdom. Students will then explore the great immigration at the turn of the 20th century, the impact of manufacturing, the creations of unions, and the rise of the women's and civil rights movements. The course traces how the United States became a modern nation.

**Full Year: 6 credits**

### **H9463 Language Based Contemporary World Issues (Grade 11)**

*(Prerequisite: Special Education Team Recommendation)*

The Language Based Contemporary World Issues is designed to combine history and geography with the study of contemporary issues in America and other nations. The students will also explore the world today through the use of technology and hands on activities.

**Full Year: 6 credits**

## **Resource Support**

The Resource Support program offers daily support by a special education teacher and, at times, an instructional assistant to students in all academic areas. Additionally, collaboration with the student, general education teachers, special education teachers, guidance counselors, administration, parents, therapists, etc. is an integral part of the Resource Support program.

### **H9653 Resource Support**

### **H9663 Resource Support**

*(Prerequisite: Special Education Team Recommendation)*

The Resource Support course assists students with assignments, homework, projects, test preparation, as well as other essential academic and social skills for success. The Resource Support course also provides organizational and study strategies to help students with disabilities that attend general education and/or specialized classes. Furthermore, the Resource Support course provides instructional strategies on literacy skills. The Resource Support environment includes, but is not limited to, 1:1 instruction, small group instructions, monitoring and reinforcement, applied academics, learning, implementing, and evaluation strategies and skills, and academic test monitoring.

**Semester Course: 3 Credits**

## **Transition Program**

The Transition Program provides students with skills to succeed post high school graduation be it continuing in higher education, establishing a career in the workforce, and/or life.

### **H9490 Transition To Success**

The Transition to Success course offers students additional tools for a successful transition to post-graduate college, career, and life success. This course is designed especially for students with a documented need for transition services. Additionally, this course will result in a student portfolio of documented skills. Priority is given to seniors who are not enrolled in and/or have participated in Transition Advisory or the Life After High School Summer Program.

**Semester Course: 3 Credits**

### **H9500 Transitions to Work Program**

*(Prerequisite: Referral from teacher and/or guidance counselor; approval of the Transition to Work Program Coordinator)*

Watertown High School recognizes and acknowledges the necessity for all students to be given the opportunity to gain awareness and understanding of the world of work while developing appropriate work behaviors, social and life skills. A job coach will be provided to assist student transition and the move toward the world of employment. Identification of the students is based upon referrals from teachers and/or guidance counselors, as well as the approval of the Transition to Work Program Coordinator. The community-based employers greatly enhance the experiences of all students to develop skills that will lead to more successful transition into the world of work. Requirements may include weekly meetings with the coordinator or job coach; submission of weekly pay stubs; signing out daily on the sheet provided in room 302C; evaluations to assess students' progress; a midterm and year-end graded project.

**Full Year: 6 credits**

## **Related Services**

- Adaptive Health
- Adaptive Physical Education
- Language and Literacy Tutorial
- Occupational Therapy
- Physical Therapy
- Reading Services
- Speech Therapy
- Home/Hospital/Tutorial Instructional Support

### **H8503 Applied Health**

*(Prerequisite: Special Education Team Recommendation)*

A special education teacher who will focus on the relationship that exists among physical, mental, and social health will teach the Adaptive Health class. The goal of this class is two-fold as it teaches life skills health in addition to standards based curricula. Students within this class receive small group instruction that is highly sequential, visual, and formatted to fit executive functioning needs. Topics that may be covered, but not limited to include decision making, self-esteem, relationships, nutrition, consumer health, effects of alcohol, tobacco and drugs; body systems, sex education, CPR and fitness. Through these topics, students will learn that decisions they make affect all areas of health. Students will develop an understanding that by taking responsibility of their own health, it will have positive effects both personally and to others around them.

**Semester Course: 3 credits**



**H8003 Adaptive Physical Education**

*(Prerequisite: Special Education IEP/504 Recommendation)*

The Adaptive Physical Education (APE) Program is offered to students who will benefit from participating in a modified physical education program due to medical needs. Additionally, students who have other reasons may be eligible for APE; however, the student is required to receive an evaluation in order that the determination of eligibility can be made. The APE class modifies the physical education curriculum to meet the needs of students with disabilities, while also meeting the physical education state standards.

**Semester Course: 3 credits**

**Occupational Therapy**

*(Prerequisite: Special Education IEP/504 Recommendation)*

Occupational Therapy seeks to restore a student's independence in activities of daily living, utilizing assessments and specialized activities. Techniques include upper extremity exercises, homemaking and personal care training, and prosthetic training.

## Physical Therapy

*(Prerequisite: Special Education IEP/504 Recommendation)*

Physical Therapy is directed toward the optimal restoration of a student's functional ability to allow access to the curriculum in an educational setting. Treatment techniques include evaluation, muscle strength and range of motion testing, specific exercises and use of modalities, ambulation and prosthetic training, use of assistive devices, and student and family education and support.

**Reading Services**

*(Prerequisite: Special Education IEP Recommendation)*

Reading Services are a component of the Special Education Program that focus on the individual decoding and/or comprehension needs of students who have a diagnosed reading disability with related IEP reading goals.

**Speech Therapy**

*(Prerequisite: Special Education IEP/504 Recommendation)*

Speech Therapy is a component of the Special Education Program that focuses on the development of appropriate expressive and receptive skills in an educational setting.

**Home/Hospital/Tutorial Instructional Support**

Students who are confined to home or hospital due to medical reasons are entitled to tutorial support should they be absent for more than fourteen days. A physician's statement of confinement is required.