

# Academic Handbook



*Howland Local Schools*



2015-2016

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\*Subject to change pending legislation.

**MISSION STATEMENT**

The Howland High School faculty recognizes that each student is a unique human being, possessing dignity and worth, skills and talents. The faculty is committed to assisting and furthering the intellectual, physical, and social development of each student by providing them with the knowledge and skills required for working, living, and learning in a knowledge-based society.

**LETTER**

Dear Students and Parents/Guardians:

This academic handbook is designed to provide you with a listing and a short description about the courses offered at Howland High School. The information provided in this academic handbook will help you to make informed course selections that will help to prepare you for your future career goals. Please study the course descriptions and be prepared to discuss your options with your guidance counselor when you schedule your classes.

Our school offers a variety of educational offerings and programs. The vocational needs of our students are served by the Trumbull County Technical Center. Graduation requirements, testing dates, honors diploma requirements, and many other important facts are provided in this handbook. This handbook can help you to plan course selections to help you take advantage of your strengths and talents.

We encourage you to take full advantage of the wide range of curricular offerings at Howland High School. We challenge all of you to reach your maximum potential by enrolling in as many appropriate classes as possible. By doing so, you can be assured that you will be well prepared to meet the challenges that await you post-graduation.

The faculty and administration of Howland High School are prepared to help you meet these challenges. We will provide you with the structural foundation to allow you to develop your fullest potential.

We wish you the best as you journey through the years at Howland High School.

Sincerely,

Howland High School  
Faculty and Administration

**EARNING AN OHIO DIPLOMA**  
**Classes of 2016 through 2017**

There are testing requirements and curriculum requirements connected to earning an Ohio diploma; all students must earn the curriculum requirements listed and take/pass the Ohio Graduation Tests. The Ohio Graduation Test (OGT) measures a student's proficiency at a 10<sup>th</sup> grade level in five content areas: reading, writing, mathematics, social studies, and science. The purpose of the test is to ensure that every student who receives a high school diploma in Ohio has not only completed the minimum curricular requirements, but has demonstrated proficiency in the five content areas as well. You can access additional information on the web at: <http://www.education.ohio.gov>

**OGT 2015-2016 Testing Dates**

October 26-30, 2015	Grades 11-12	
March 16 – 27, 2016	Grades 11-12	Any subject test not passed

**Alternate Ways to Meet the Testing Requirements**

A student may meet the testing requirements for passing all five Ohio Graduation Test if he/she meets **ALL** of the following criteria:

- Passes four of the five tests and has missed passing the fifth test by no more than ten points;
- Has a 97% attendance rate, excluding any excused absences, through all four years of high school and must not have had an expulsion in high school,
- Has at least a grade point average of 2.5 out of 4.0 in the courses of the subject area not yet passed;
- Has participated in any intervention programs offered by the school and must have had a 97% attendance rate in any program offered outside of the normal school day
- Has letters recommending graduation from the high school principal and from each high school teacher in the subject not yet passed.

NOTE: As specified in the Ohio Revised Code (Section 3313.615), this alternate way to meet the testing requirement only applies to students graduating after September 15, 2006.

## **HOWLAND HIGH SCHOOL COURSE REQUIREMENTS FOR GRADUATION**

### **Course requirements to graduate: (21 credits)**

- 4 credits in English
- 4 credits in math
- 3 credits in science (physical science & biology)
- 3 credits in social studies: (world studies, US history, government)
- 1 credit fine art/foreign language/technology
- ½ credit career search 2
- ½ credit health
- ½ credit physical education (2 semesters)
- 4.5 elective credits

## **CLASS OF 2018 AND BEYOND TO HAVE NEW GRADUATION REQUIREMENTS**

Students starting ninth grade this fall will have new state requirements for earning a high school diploma. The change will ensure that our students are better prepared for success after high school whether they attend college, pursue other training or go directly into a job.

### **What's New**

Students may qualify for graduation:

- Earn an appointed, combined passing score on a series of seven end-of-course exams. Due to legislative changes, students will be notified of test subject requirements. This will avoid double testing.
- Earn an industry-recognized “credential” or state license to practice a vocation and receive a score on a job-skills test that shows the student is ready for employment.

### **What Will Not Change:**

- Students who have exceeded Ohio’s curriculum requirements for graduation have an opportunity to earn a diploma with honors.
- To graduate, students still must earn a certain number of credits in English, math, science, social studies, physical education, health and elective courses.
- Through the class of 2019, students can meet alternative requirements in mathematics and science.

The state has designed these options to ensure that every high school student has access to a high-quality education and is prepared for success in college and careers. Be sure to monitor your child’s high school coursework and credits, and encourage your child to do the same. For more details, visit [education.ohio.gov](http://education.ohio.gov) and type new graduation requirements in the Search box.

### **New State Tests to Replace OGT**

Ohio will replace its Ohio Graduation Test (OGT) with new end of course exams that better Measure whether students will be ready for college or a position in the work force.

### New State Tests to Replace OGT (continued)

The exams will replace the OGT beginning with the class of 2018 (students who enter ninth grade in 2014-2015). Students who take high school English language arts I and II, algebra I, geometry (or integrated mathematics I and II), science, American history and American government will take end-of-course exams in these subjects. To avoid double testing, students participating in Advanced Placement, International Baccalaureate or College Credit Plus programs in physical science, American history and American government may take the corresponding tests instead of Ohio's end of course exams in these subjects.

### HOWLAND HIGH SCHOOL COURSE DROP/ADD POLICY

Students are required to complete a minimum of 21 credits for graduation. Students are required to enroll in a minimum of **5 credits** of instruction per year.

1. Students have until the end of the school term each academic year to change their schedule for the following year.
2. A student may drop a credit/course, within the first five days of the start of the course, if they continue to be enrolled in **5 classes per day**. Students returning to the high school from the Trumbull County Career and Technical Center program may be required to add courses in order to comply with the **5 classes per day** requirement. There will not be any grade penalty if a student drops a class that does not have a graded summer work requirement. If a student drops a course with a summer work assignment that is not adequately completed, they will be assessed a ten percent (10%) point reduction in the first quarter of the new course.
3. Students, with approval from their counselor, may change their classes/courses if they are repeating a course they failed with the same teacher from last year, **if possible**.
4. Schedule changes may occur for the following reasons:
  - ◆ for academic reasons, upon the recommendation of the teacher and/or counselor,
  - ◆ for signing up for summer school and not attending summer school,
  - ◆ for a computer scheduling error,
  - ◆ for adding classes for academic reasons, i.e. low reading and math scores, and
  - ◆ for meeting the needs of all identified special education and identified "at risk" students
  - ◆ master schedule change.

NOTE: If a student drops and adds another class, any grades earned in the dropped class may be applied in the grade calculation in the new course.

5. Students who drop a class after the first five days of the start of the class will receive a **withdrawn failing grade (WF)** for that course. **Course fees will not be refunded**.
6. Students may **add** a class during the same period of his/her study hall, if it doesn't adversely affect class enrollment. Students may **add** a class through the first five days of the start of the course. This applies only to those students who have a study hall on their original schedule and not to those who acquired a study hall as a result of dropping an academic subject.



Honors Physical Science

Honors U.S. History

**Required Honors and AP Courses (continued)**

Grade 11: AP English 11  
Honors Pre-Calculus  
Honors Chemistry

Grade 12: AP English 12  
AP/Dual Credit Calculus  
Honors Physics

**A special insignia will be placed on the diploma of those students that complete the Scholars program of studies.**

**\*The above are not based on weighted averages for the graduating Classes of 2016, 2017, 2018.**

Classes taken at a university and under Ohio's College Credit Plus (CCP) requirements **will not be counted** as part of the valedictorian or salutatorian criteria. They will count as regular classes receiving regular credit. Also, courses taken in summer school, with a tutor, or through a credit flexibility program will not be counted as part of the valedictorian or salutatorian criteria.

**SPECIAL DISTINCTIONS**

*Summa Cum Laude*  
*Magna Cum Laude*  
*Cum Laude*

*4.2 and above*  
*4.1-4.19*  
*4.01-4.09*

**THE HOWLAND SCHOLARS PROGRAM OF STUDIES**

In order to qualify for the Howland High School Scholars Program at graduation, students are required to take 10 of the 24 honors/AP classes/dual credit courses as listed below. In addition, the Scholars Program requires that students take three years of one foreign language and a fine arts class. This program further requires that a minimum of two honors/AP/dual credit courses be taken each year the student is enrolled at Howland High School.

**Available Honors and AP Courses by Grade Level**

Grade 9: Honors English 9  
Honors Geometry  
Honors World History  
Honors Physical Science

Grade 10: Honors English 10  
Honors Algebra II  
Honors Biology I  
Honors U.S. History

Grade 11: AP English 11  
Honors Pre-Calculus  
Honors Chemistry  
DC Communications  
AP Stats  
AP Art History  
AP Government  
AP Psychology

Grade 12: AP English 12  
Dual Credit English 12  
AP/Dual Credit Calculus  
Honors Physics  
Dual Credit Biology  
DC Communications  
AP Stats  
AP Art History  
DC Italian IV  
AP Spanish IV  
AP Government

AP Psychology  
AP Programming II

A special insignia on the diploma will be added for the Scholars program of studies students. Reading the names of all students who participated in this program will be part of the graduation ceremony.

Courses taken at a university under the College Credit Plus (CCP) requirements **will not be counted** as part of the Howland High School Scholars Program. They will count as regular classes receiving regular credit. Also, courses taken in summer school, with a tutor, or through a credit flexibility program will not be counted as part of the Howland High School Scholars Program of Studies.

### **TRI-ALPHA**

All students recognized as having earned a 3.75 or higher grade point average will wear a gold cord at graduation.

### **A+ AWARD**

Students not participating in the Scholars Program but maintaining a straight “A”s through his/her high school career will be recognized at graduation.

### **ACADEMIC LETTER AWARDS**

Students can earn academic letter awards by earning high grades throughout their high school career. To be eligible for an Academic Letter Award a student must maintain a 3.40 academic average (or higher) the previous school year. The award is not based on the student's total cumulative average. Only the previous academic year's average counts. Grades earned in a summer school setting are not calculated into the previous year's average. First time recipients receive a script H (similar to an athletic letter winner) and a certificate. Second-time recipients receive pins shaped in form of the lamp of knowledge and a certificate. Third-time winners receive a silver pin and a certificate. All academic awards are presented to students at an annual academic awards ceremony that is held in the fall of each year.

### **NATIONAL HONOR SOCIETY**

#### **Scholarship:**

Candidates must have a minimum cumulative 3.6 GPA.

#### **Leadership:**

The student must show evidence of leadership. Leadership is not just holding a position, leadership is seen through one's initiative in clubs and organizations, initiating and heading projects, programs, or group, along with delegating and showing dependability. The student must show resourcefulness in proposing new problems, applying principles, and making suggestions, as well as exercising influence on peers in upholding school ideals. Eight activity points must be earned by the end of their junior year and ten activity points for seniors are required for the senior class candidates.

**Service:**

The student must show evidence of service in the school setting, as well as within the community. The student volunteer is dependable and well-organized assistance, is readily available, and is willing to sacrifice in offering assistance. Examples include working in scouting activities, church-related activities, or being involved in service opportunities offered by organizations at HHS. Forty (40) hours of documented community service are required (freshman through junior year) to meet eligibility.

**Character:**

The student must exude positive character at all times and be seen as a professional by all he/she she comes in contact with. Below are some examples of what the Faculty Council looks at when evaluating character:

- The student is rarely absent, or late to class or school.
- The student takes criticism well and accepts recommendations graciously.
- The student observes all school rules and actively helps rid the school of bad influences or environment.
- The student consistently exemplifies desirable qualities of behavior.

**Note:** An incident from school or a situation involving the police may jeopardize a student's chance for acceptance into the National Honor Society.

National Honor Society members are recognized at graduation by the wearing of a light blue cord.

**HONOR ROLL**

- Students who maintain a cumulative average of 3.3 or higher are recognized in the graduation program as honor roll graduates.
- Students who earn a 3.3 or higher each nine-week grade period will be recognized as honor roll students.

**DIPLOMA WITH HONORS**

*As determined by the Ohio Department of Education*

The student who completes the **high school academic** curriculum shall meet at least seven of the following eight criteria:

1. Earn four units of English;
2. Earn at least four units of mathematics which shall include algebra I, algebra II, geometry and another higher level course or a four-year sequence of courses which contains equivalent content;

3. Earn at least four units of science including one unit of physics and one unit of chemistry;
4. Earn four units of social studies;
5. Earn either three units of one foreign language or two units each of two foreign languages;
6. Earn one unit of fine arts;
7. Maintain an overall high school grade point average of at least 3.5 on a four-point scale up to the last grading period of the senior year; or
8. Obtain a composite score of 27 on the American college test's ACT assessment (excluding the optional writing test) or a combined score of 1210 on the College Board's SAT verbal and mathematics sections (excluding the required writing section).

The student who completes an intensive **career-technical education** curriculum shall meet at least seven of the following eight criteria:

1. Earn four units of English;
2. Earn at least four units of mathematics which shall include algebra I, algebra II, geometry and another higher level course or a four-year sequence of courses which contains equivalent content;
3. Earn at least four units of science including one unit of physics and one unit of chemistry;
4. Earn four units of social studies;
5. Earn four units in a career-technical education program that leads to an industry-recognized credential, results in an apprenticeship or is part of an articulated career pathway, which can lead to post-secondary credit. If the student's program design does not provide for any of these outcomes, then the student must achieve the proficiency benchmark established for the applicable Ohio career-technical competency assessment of the equivalent;
6. Achieve the proficiency benchmark established for the Ohio Career-Technical Competency Assessment (available at [http://www.webxam.org/info\\_docs.asp](http://www.webxam.org/info_docs.asp) or equivalent assessment aligned with state approved and industry validated technical standards);
7. Maintain an overall high school grade point average of at least 3.5 on a four-point scale up to the last grading period of the senior year; or
8. Obtain a composite score of 27 on the American college testing service's ACT assessment (excluding the optional writing test) or a combined score of 1210 on the college board's SAT verbal and mathematics sections (excluding the score obtained on the required writing section).

### ***Frequently Asked Questions regarding Diploma with Honors***

#### ***What are the required core courses for graduation?***

- English: 4 units
- Math: 4 units
- Science: 3 units
- Social Studies: 3 units
- Foreign Language: 2 units
- The Arts: 1 unit

#### **How is the grade point average calculated?**

The student must achieve a grade point average (GPA) of 3.5 based on a 4.0 average. If a school district policy includes the use of weighted grades in calculating a student's grade point average, (e.g., awarding five points for an "A" in an honors course), the student's GPA must be

recalculated using four points for an “A” and then use that average for the GPA criterion for the Diploma with Honors.

**What is meant by “up to the last grading period of the senior year?”**

Students can meet grade point average (GPA) criteria by having a total GPA of at least 3.50 at mid-year of their senior year, in accordance with district policy regarding graduation from high school.

**Do courses taken in the postsecondary education options program count toward the Diploma with Honors?**

Yes. Diploma with Honors rules specifically allow for postsecondary options to count toward Diploma with Honors credit.

**Can a student exempted from the Ohio Graduation Tests (OGT) through an Individualized Education Plan (IEP) earn a Diploma with Honors?**

Yes. An exempted student may earn a Diploma with Honors provided he or she meets all IEP requirements and the specified number of criteria for a Diploma with Honors.

**May a student who graduates under the OGT alternate pathway receive a Diploma with Honors?**

Yes. Ohio Revised Code 3313.615 allows students who pass four of the five OGT and meet other criteria to receive a diploma or a Diploma with Honors.

**May a student earn a regular diploma and a Diploma with Honors?**

No. Students may earn only one diploma. A student eligible to receive a Diploma with Honors may not receive a regular diploma.

**Can a student take receive credit for Physical Education Opt Out?**

No, a student cannot earn Physical Education credit. The credit must be made up through an elective.

**Does taking 1 Physical Education class and completing 1 sport, band, or cheerleading satisfy the Physical Education Opt Out requirement?**

No, two full seasons must be completed.

**What defines a “Fine Arts” unit?**

The disciplines of the fine arts are dance, drama/theatre, music and visual art and can be located in the “Fine Arts Academic Content Standards”.

**How do students get assigned to the courses they select?**

Students are assigned seats for courses by the following criteria:  
Seniors requiring a particular course to fulfill a graduation requirement will be assigned first.

Subsequent assignments will be by the student's grade level and by grade point average.

### **COLLEGE VISITATION GUIDELINES**

Each junior and senior may be permitted to visit colleges for **three** days during the school year. The student's parent/guardian must complete a future absence excuse for the main office. The student is responsible for all assignments given during the days he/she is gone. College visitation days may be taken one day at a time or in any combination of one, two or three days. Although the time is counted as excused, absences will be added to the 9/18-day attendance policy.

### **COLLEGE CREDIT PLUS (CCP)**

College Credit Plus (CCP) is a program open to all high school students in grades 9-12. This program allows students to attend college while still in high school and receive high school and college credits (option B). There is a mandatory counseling session for parents and students wishing to apply for this program. The deadline for applying is March 31 (or earlier if a college assigns a different deadline). Spring is the only time a student can apply to this program. In order to keep within the requirements of enrollment in at least five courses per semester, a student must take a combination of college and high school courses to equal at least **five** courses and no more than seven courses per semester.

YSU post-secondary option requirements for juniors or seniors are as follows: **3.3 GPA** on a 4.0 scale and **23 ACT** or **1070 SAT**; for freshmen or sophomore students: **3.5 GPA** on a 4.0 scale and **28 ACT** or **1260 SAT**. In addition, all respective students must **pass the YSU placement test** and must have **passed all parts of the OGT tests**.

KSU-Trumbull requirements are as follows: a **3.0 GPA** and an **ACT score of 23 or SAT scores of 1590** for juniors and seniors. Freshman and sophomore students must have a 3.3 GPA. All grade levels also must have guidance counselor recommendations.

College courses for which five semester hours of credit are earned will be awarded one Carnegie Unit. Fractional Carnegie Units will be awarded proportionately (i.e. 1/2 Carnegie Unit = 2.5 semester hours of credit).

### ***Dual Credit Courses***

The following courses may be offered for dual credit (high school and college credit). Students will be required to take the courses below as dual credit courses. Students interested in this course selection should check with their guidance counselor for dual credit possibilities during the scheduling process in March-June of the current school year.

Dual credit courses offered:

- Dual Credit English 12
- AP Calculus
- Dual Credit Communications
- Italian IV
- AP English 12
- Dual Credit Biology II

Dual credit courses can be offered once minimum enrollment numbers are met.

In order to be eligible to receive college credit the following requirements must be met:

- ◆ Student must be a Junior or a Senior
- ◆ Overall GPA of 3.0

- ◆ ACT scores: English 18/ Reading 21/ Math 22  
Or
- ◆ SAT scores: Writing 430/ Reading 450/ Math 520
- ◆ Pass all 5 parts of the OGT test

Last ACT/SAT scores accepted will be the June 2015 scores. If these scores are needed, you must print out score report from website and turn in to the Guidance Office before the start of the school year. If not, the student will be dropped from the class and placed in an alternative class.

### **EDUCATIONAL OPTIONS**

Educational options are supplemental learning experiences, which may be provided in accordance with board policy to augment the regular school program schedule for students. Such options include tutorial programs, education abroad, and evening school programs. A student seeking to utilize an educational option must follow the guidelines outlined below:

#### ***Summer School***

It is encouraged that summer school be used for remedial purposes. However, if a student wishes to take summer school for enrichment purposes (enrichment meaning courses not offered in the high school curriculum), he/she must have the approval of a guidance counselor **before** he/she enrolls in summer school. Students **will** need the approval the principal or his/her designee to enroll in summer school courses (not for enrichment) offered at other high schools. Students may only earn a maximum of 2 full credits toward the required 21 credits for graduation through summer school, tutoring, and/or a combination of both. Students who have failed a required English or math class must enroll in remedial classes **before advancing to the next required course**.

#### ***Tutoring For Credit***

1. The student must need the proposed remedial course to meet graduation requirements.
2. The proposed course may not replace a similar course taught at Howland High School unless class space or a scheduling problem is a concern.
3. Written approval of the guidance counselor, principal, and parent must be given prior to the student's enrollment in the educational program.
4. An instructional plan which adheres to state minimum standards and an outline including major instructional activities, materials and environments must be submitted to the principal prior to pupil participation (forty hours of one on one direct contact time for credit eighty hours of student work).
5. A certified/licensed teacher shall provide instruction and evaluate pupil performance.
6. A description of criteria and methods for assessing pupil performance also must be submitted to the principal.
7. Students may not be tutored for high school credit during the regular school year unless they are unable to schedule the needed class and are eligible to graduate with their class upon successful completion of all course work during that particular school year.

#### ***Middle School Class Credit***

Should a student from Howland Middle School elect to take a high school course for credit at the middle school (Algebra I), the student's grade in the class will not be included in his/her accumulative grade point average when the student achieves high school status. However, the

credit earned for the class will be added to the total number of credits taken toward his/her high school graduation without impacting the G.P.A.

### ***Repetition of Courses***

Students may only repeat courses in which they received a final grade of D/F, or by teacher recommendation. Students repeating a course may only apply it once toward their subject area requirement and their 21-credit graduation total.

Example: Four credits in math are required for graduation. If a student repeats Algebra I, this class will only count as one class toward their subject area requirement, even though they've taken it twice. However, the repeated course will be counted above and beyond the 21 credits required for graduation.

The final grade earned in both courses used in the above example would be used to calculate a student's grade point average.

### ***Credit Flexibility Information***

Please note: This policy is subject to change due to the new provisions of Ohio Legislation.

Credit flexibility shifts the focus from the seat-time requirements of a traditional high school setting to a performance-based model. Students can earn units of high school credit based upon and individually approved credit flexibility plan. Students can earn units of high school credits based on a demonstration of subject area competency, instead of or in combination with completing hours of classroom instruction.

Ohio's plan for credit is designed to broaden the scope of curricular options available to students, increase the depth of study possible for a particular subject, and allow tailoring of learning time and/or conditions. These are ways in which aspects of learning can be customized around more of students' interests and needs.

Students may successfully earn credits by:

- Completing coursework;
- Testing out of or demonstrating mastery of course content; or
- Pursuing one or more "educational options".

Students interested in credit flexibility should obtain an application to develop a learning plan from their guidance counselors. **Students wishing to participate in credit flexibility must submit their credit flexibility plan 20 days prior to the start of the upcoming semester.**

### ***Advanced Placement Courses***

The following AP courses will be offered at Howland High School. Students are required to take the AP exam following the course.

AP English 11  
AP English 12

AP Spanish  
AP Government

AP Art History  
AP Programming II

***Equivalent Education Outside of the Howland Local School District***

The Board of Education encourages the enrollment of all school age children residing in this District in public schools so that they may enjoy the benefits of a well-planned educational program and the socialization possible in a group environment.

The Board recognizes its responsibility for assuring that every school age child resident in the District is enrolled in an approved school or is offered an equivalent education elsewhere. The Board reserves the right to request the parents or guardians of a child offered an educational program outside the school to provide sufficient information regarding that program to base a decision as to its equivalency. Said information shall include but need not be limited to 1) the qualifications of teacher(s), 2) the comprehensiveness and thoroughness of the curriculum, 3) the sufficiency of the facilities and instructional materials, 4) the instructional schedule, 5) the regularity of the child's attendance, and 6) the accomplishments of the child.

**ENTRY AND RE-ENTRY OF STUDENTS**

A. Students seeking admission into the Howland Local School District who have been previously enrolled in any other public or non-public school may be required to take competency examinations and subject area semester or final examinations. The purpose of these examinations is to determine their proper grade placement and the awarding of high school credits. The decision for placement and the awarding of credits will be determined by the guidance department and building principals.

In making the placement and awarding of credits decision, the guidance department and building principals shall consider:

1. The student's most recent annual assessment report;
2. Other evaluation information that may include interviews with students and the parent/guardian;
3. Examination results taken at Howland High School

B. Students seeking admission into the Howland Local School District who have been previously enrolled in another public or non-public school will enter under the following conditions:

1. The grades issued by the previously attended schools will be converted to the Howland Schools' grading scale whenever possible and will be included in the calculation of the student's GPA (grade point average) and class ranking.
2. Students must be in continuous attendance at Howland High School for a minimum of three (3) semesters to be eligible for any academic distinctions such as National Honor Society, Tri-Alpha or a scholar's diploma.
3. Students must be in continuous attendance at Howland High School for a minimum of one (1) semester to be eligible to participate in graduation ceremonies.

C. Students seeking admission into the Howland Local School district who have previously enrolled in a home schooling or on-line electronic school will enter under the following conditions:

1. No student will be granted more credit for one (1) year of school work than a

- student could have earned at our high school in one (1) year.
2. Grades awarded for course work credit that is granted, will not be counted in the student's GPA (grade point average). A student's GPA will be based upon grades and credits earned while in attendance at Howland High School.
  3. Students must be in continuous attendance at Howland High School for a minimum of three (3) consecutive semesters to be eligible for academic distinctions such as National Honor Society, Tri-Alpha or a scholar's diploma.
  4. Students must be in continuous attendance at Howland High School for a minimum of two (2) consecutive semesters to be eligible to participate in graduation ceremonies.

D. Howland students re-entering during the same school year will still be under the 9/18-attendance policy for that school year. Period by period attendance will be continued from the re-entry date and added to the previous attendance numbers at time of withdrawal. Example: (3 absences in period 3 up through the withdrawal date. Student re-enters school and accumulates 5 absences in period 3. Total absences at the end of the school year would be 8 absences in period 3.)

### ***Education Abroad***

- Credits earned outside the U.S.A. will be substituted for courses required for high school graduation based upon comparability of content and verification through transcript. Students participating in Education Abroad must participate in yearlong programs through administrative approved agencies.

### **THIRTEENTH YEAR STUDENT WHOSE CLASS HAS GRADUATED**

These students may:

- Attend a partial school day
- May receive credit for tutored courses during a regular school day
- May receive credit for online school courses during the regular school year

### **GED**

According to HB 487, a student who has withdrawn from high school can acquire a GED the following way: The superintendent's approval and signature are no longer required for young people below the age of 19 to sit for the exam. Form submissions for GED testers ages 16 and 17 must include a copy of the current year withdrawal form signed by the school administrator. Additionally, an Original Consent Form must be signed and notarized from the parent, guardian, or court official (copies of the guardianship or court documents must be included). Form submissions for GED testers age 18 must include a copy of the current year withdrawal form signed by the school administrator.

### **SPECIAL EDUCATION**

A curriculum in the academic subjects and functional skills is available for students with disabilities. These classes are designed to meet the specific needs of students receiving special education intervention as required by the Individuals with Disabilities Educational Act (IDEA). The identified students are assessed via the multi-factored evaluation (MFE) and an Individual Education Program (IEP) is designed to meet those needs. Courses are selected for the students at their annual review of the Individualized Education Program by the IEP team.







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**DESIGN AND ILLUSTRATION****Grades 10-12****1 credit**

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Design and Illustration is a studio art course that focuses on illustrative techniques and design principles as they relate to the commercial art/advertising field. Students will develop their own personal style as they strive to achieve mastery in various two dimensional mediums such as pencils, paints, charcoal, pen and ink, computer generated media and printmaking.

*Prerequisites - Basic Art with a "C" or above and Teacher Recommendation*

*lab fee*

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**AP ART HISTORY****Grade 11-12****1 credit**

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The Advanced Placement (AP) History course is an introductory college-level course that gives students the opportunity to discover, appreciate, and acquire knowledge of art history through the ages, from the Paleolithic era to contemporary times. Through readings, research, viewing images and videos, virtual and real visits to art museums and galleries, students will come to know the significant artists and artworks from diverse historical and cultural contexts. A variety of art media and styles will be studied as the students look at architecture, manuscripts, painting, drawing, printmaking and sculpture, as a reflection of a given civilization and time period. Writing skills will be important in the description, analysis, and comparison of these works. Students will be asked to look, research, discuss, and write about art in relation to such issues as patronage, gender, politics, religion, and ethnicity. **Students are required to take the AP Art History exam upon completion of the course.**

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**SENIOR STUDIO****Grade 12****1 credit**

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Senior Studio is designed for the advanced art student to help align their choice of an art career or a vocation with a personal arts philosophy and a body of work developed throughout the course in the form of a portfolio. Emphasis will be placed on independent study. Students will be expected to visit galleries, write formal evaluations and engage in classroom critiques. *Prerequisites - Basic Art with 2 additional art credits in either: Draw & Paint, Design Illustration and/or 3D Design and Teacher Recommendation.*

*lab fee*

### Computer Technology

<b>9<sup>th</sup> Grade</b> Digital Media I	<b>10<sup>th</sup> Grade</b> Digital Media I Desktop Publishing Digital Media II Web Page Design
<b>11<sup>th</sup> Grade</b> Digital Media I Desktop Publishing Digital Media II Web Page Design Yearbook	<b>12<sup>th</sup> Grade</b> Digital Media I Desktop Publishing Digital Media II Web Page Design Yearbook

**FRESHMEN PLEASE NOTE:**

**The only computer class open to freshmen is Digital Media I.**

**UPPER CLASSMEN:**

**Digital Media I may NOT be taken AFTER Desktop Publishing, and Digital Media II classes.**

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**DIGITAL MEDIA I****Grades 9-12****1 credit**

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Within this course, students will learn the basics of all software offered at Howland High School. This will include the software for computer applications, as well as the basics of Adobe Suite CS. Students will learn Microsoft Word, Excel, Publisher and Power Point. Students will learn Internet Safety as well as Rules and Regulations of the Internet usage. This course will be a stepping-stone into the next class, which would be Digital Media II. Photo Shop is also used in this course.

*lab fee*

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**DESKTOP PUBLISHING****Grades 10-12****1 credit**

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Desktop Publishing will use Microsoft Publisher, and Adobe C56, as well as digital cameras during the yearlong course to produce professional-looking publications. Students will learn how to design a publication regarding its purpose and audience. Design concepts such as appropriateness, balance, focus and flow and consistency will be used when creating

documents. Typography and the use of fonts, sizes and styles will be included in the subject material. Photo Shop and Illustrator will be used to draw graphics, resize, move and delete graphics, as well as digital and scanned pictures to be included in publications. Students will design advertisements, brochures, newsletters and packaging for projects they will create during the year. *lab fee*

**DIGITAL MEDIA II**

**Grades 10-12**

**1 credit**

This course is the next step after basic Digital Media I but can also serve as an entry level course for students in grades 10-12. Students will learn more advanced techniques of Adobe Suite CS6 including; Photoshop Premier, and Illustrator. Within this course, students will also learn the basic techniques of video production, camera operation, story design, scriptwriting and video editing. *lab fee*

**WEB PAGE DESIGN**

**Grades 10-12**

**1 credit**

In this course, students will learn the fundamentals of how to plan, design, and launch a complete Website with creative interfaces, strong graphic images, and functional site organization. The course will focus on the development of design skills, and creativity utilizing web page design tools such as HTML, FrontPage, Java Script, DreamWeaver, Macro Media Flash, Adobe Fireworks and Adobe Photo Shop. *lab fee*

**Yearbook**

**Grades 11-12**

**1 credit**

The yearbook course is a collaborative business venture whose primary goal is to produce an accurate, thorough, consistent, technically correct record of the lives, emotions, and activities of the students in the high school. The yearbook course requires students to take part in all aspects of production of the yearbook including: creating a theme, designing the Online Design, Adobe Photoshop, InDesign and Illustrator to aid in the development of the book. It also deals with the funding of the book. Students are encouraged to participate in workshops and attend a three day camp at Slippery Rock University sponsored by the publisher of the book during the summer.

**Drama**

**THEATRICALS**

**Grades 11-12**

**1 credit**

Besides basic acting, the course will include exercises to improve the voice, oral interpretation, interaction, and movement. Students will survey the history of drama from the Greek period to Broadway. Theatrics carries a fine arts credit.

**English**

**HONORS ENGLISH 9**

**Grade 9**

**1 credit**

<b>9<sup>th</sup> Grade</b> Honors English 9 C. P. English 9	<b>10<sup>th</sup> Grade</b> Honors English 10 C. P. English 10 English 10
<b>11<sup>th</sup> Grade</b> AP English 11 C. P. English 11 English 11 Dual Credit Comm. Creative Expressions	<b>12<sup>th</sup> Grade</b> AP English 12 C. P. English 12 English 12 Duel Credit Eng. 12 Duel Credit Comm. Creative Expressions

This course stresses strong composition skills as well as the ability to critically read a variety of genres. This course outline consists of advanced vocabulary work, research projects, language study, and speaking assignments, along with the analysis and interpretation of at least six novels.

***Strongly Recommended - "B" or better in preceding equivalent course or an "A" in preceding lower level course and/or teacher recommendation.***

**Summer reading requirement.**

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**COLLEGE PREP ENGLISH 9****Grade 9****1 credit**

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This course is aimed to develop competence in all language arts skills: reading, research, writing, speaking, and listening. Students will cover six literature units: short story, non-fiction, poetry, drama, epic, and the novel. Grammar is integrated with the literature studied and writing produced.

***Strongly Recommended - passing of 8th grade English Language Arts.***

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**HONORS ENGLISH 10****Grade 10****1 credit**

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Students will study American Literature, both topologically and chronologically. Students will read at least six novels as well as selections from the American Literature text. A portfolio of expository, creative, and research-oriented writings will be created. In addition, students will complete individual and thematic vocabulary units and work in both the media center and computer lab. Speaking requirements will include informational presentations, descriptive presentations, and persuasive speeches. Listening skills will also be stressed.

***Strongly Recommended - "B" or better in preceding Honors English 9 course or an "A" in college prep English 9 course and/or teacher recommendation. Summer reading requirement.***

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**COLLEGE PREP ENGLISH****Grade 10****1 credit**

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Writing and mechanics are emphasized through analytical essays. Information and research skills are reinforced by activities that integrate the resources of the Media Center and Computer Lab. Listening and visual literacy skills are developed through integrated activities based on an American literature text. Students will read at least three outside novels, and write six 2-3-page papers. Speech activities include project presentations, persuasive presentations and informal/formal description presentations.

***Strongly Recommended - passing College Prep English 9 with a "C" or better.***

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**ENGLISH 10****Grade 10****1 credit**

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The focus is on reading, basics in writing, mechanics of spelling and proper word usage. Vocabulary is developed through the formation of sentences and paragraph writing. Oral communication skills will be learned through class discussions and various speaking assignments. Three novels are also read.

***Strongly Recommended - CP English 9 and teacher/guidance recommendation.***

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**AP ENGLISH 11****Grade 11****1 credit**

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Advanced Placement 11 enables academically motivated students to further their potential. Experiences in reading closely, thinking precisely and writing logically are part of this course. Students will write one research paper. The course prepares students to take the AP English Literature & Composition exam in order to qualify for college credit. The focus of the course is an analysis of the literature of England using primarily a chronological approach.

***Strongly Recommended - completion of Honors English 9 and 10 with a "B" or better, selection and recommendation of English teacher and/or AP 11 instructor, and completion of required summer reading and writing projects. Students are required to take the AP Exam upon completion of the course.***

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**COLLEGE PREP ENGLISH 11****Grade 11****1 credit**

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This course provides the background for the college-bound student to develop his/her reading, writing, and vocabulary skills. The literature studied is the prose and poetry of England from the Anglo-Saxon period through Romanticism to present-day writings as well as reading at least three outside novels. The development of writing skills is addressed by requiring the student to submit a minimum of four writing samples, one of which will be a research paper. A minimum of three-four oral assignments also helps the students to further develop their communication skills.

***Strongly recommended - passing College Prep English 10 with a "C" or better.***

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**ENGLISH 11****Grade 11****1 credit**

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English 11 is designed to develop basic reading, writing, grammar, composition, and vocabulary skills. Reading skills are developed by reading short stories, poems, plays, speeches, essays, autobiographies, biographies, TV scripts, articles, and three novels.

***Prerequisite – Two English credits and teacher/counselor recommendations.***

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**AP ENGLISH 12****Grade 12****1 credit**

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The focus of this course is an analysis of texts utilizing critical thinking, theoretical constructs, and thematic relationships. Students are responsible for keeping a reader's response journal, taking exams, writing a research analysis paper each quarter, and making presentations from the course's literary works.

***Strongly Recommended - completion of Honors English 9, Honors English 10, and AP English 11 with a "B" or better, recommendation of the AP 11 instructor and/ or approval of AP 12 instructor, and summer reading requirement. Students are required to take the AP Exam upon completion of this course.***

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**DUAL CREDIT ENGLISH****Grade 12****1 credit**

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This senior English option is a combination of two semester courses offered at YSU. Students must take both courses to receive an HHS English credit.

**Course 1 – Composition I:** The objectives of this course are to make the student a more competent and effective writer, reader, and a better critical thinker. Along with the writing, reading and discussing many thought-provoking texts will take place. The course is designed for advanced practice of planning, composing and revising formal, college-level, analytical essays.

**Course 2 – American Literature and Diversity:** Students will engage in a multi-faceted exploration of contemporary American literature that analyzes the dynamics of minority culture in our country. Reading and discussing several works of drama, fiction, and poetry, students will apply strategies for appreciating literature on multiple levels of interpretation while gaining an appreciation of the unique challenges of cultural groups in our country.

Students who meet dual credit requirements and who successfully complete an application for enrollment from YSU can earn 3 semester hours of English credit and 3 semester hours of fine arts credit.

\*As defined by YSU's entrance requirements.

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**CP ENGLISH 12****Grade 12****1 credit**

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Speaking skills are developed through informal/formal descriptive presentations, and persuasive presentations. Writing skills are addressed through completing a research paper, reflective compositions, writing responses to literature, informational essays, persuasive compositions and various informal writings. Reading includes selections of world literature and a minimum of three novels to analyze world literature from a multi-cultural approach.

***Strongly recommended - three credits of English; passing College Prep English 11 with a "C" or better***

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**ENGLISH 12****Grade 12****1 credit**

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English 12 is designed to develop basic reading, writing, speaking, and vocabulary skills. It is a continuation of the English 11 course. Students will read short stories, poems, plays, three novels, and a variety of non-fiction. They will review grammar, composition and vocabulary.

***Strongly recommended - Three English credits and teacher/counselor recommendations***

Creative Expressions is an elective that allows students to explore many forms of written and oral communication not emphasized in traditional language arts classrooms. Students will work with the instructor to brainstorm, map, and execute individually created plans. Students can focus on writing, oral interpretation, or both. Students interested in speech and debate, creative writing, photography, or journalism are strongly encouraged to enroll. Sample writing assignments include creating: graphic novels, short stories, poems, photojournalism, playwriting and performance, oral interpretation, radio and television broadcasting. Evaluation based primarily on successful completion of self-selected lessons. The majority of work can be completed in class as facilitated by the instructor. This course does not count towards one of the 4 required English credits for graduation.

**DUAL CREDIT  
COMMUNICATIONS**

*From YSU Common syllabus and Requirements:* Communication Foundations is the study of the theories, strategies, and skills for competent participation in interpersonal, group, and public communication situations are included. The course includes readings and lectures, and opportunities to apply the knowledge gained. Additionally, this course provides a foundation for understanding and enhancing your spoken communication skills. Any student may enroll for Howland elective credit.

Only those who fulfill the application requirements for YSU can receive college credits in addition to those offered by Howland.

**Foreign Language**

**MODERN FOREIGN LANGUAGES**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>
German I Spanish I Italian I	German I, II Spanish I, II Italian I, II
<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
German I, II, III Spanish I, II, III Italian I, II, III	German I, II, III, IV Spanish I, II, III AP Spanish IV Italian I, II, III DC Italian IV AP Spanish/IV

**GERMAN, ITALIAN and SPANISH** are the three modern languages offered at Howland High School. The following descriptions apply to all languages. It is strongly recommended that a student’s grade in English or in the preceding level is a “C” or better before beginning the next level. Students choosing a first level course will be asked to request a first and second language choice. Class roster slots will be filled whenever possible with a first choice language. If there are more students requesting a language than slots available, students with A’s, B’s then C’s in language arts will get the roster slot. Students with a “C” or better average not getting their first choice language will be placed into their second language choice based upon availability.

**LEVEL I**

Students will begin to develop the ability to speak, listen, read and write in the foreign language with some emphasis given on the culture (i.e., geography, history, music, art, customs) of the country or countries where the language is spoken.

**LEVEL II**

Students will be able to speak, listen, read and write in the foreign language at a higher level along with learning more about the culture of the language being studied.

***Prerequisite – Level I***

Students will continue to expand skills learned in Level II emphasizing speaking, listening, reading, writing and studying foreign culture.

***Prerequisite – Level II***

**AP SPANISH LANG & CULTURE****Grade 12****1 credit**

This course follows the current Advanced Placement syllabus in preparation for the Advanced Placement Spanish exam concentrating on Spanish Language and culture. Excellent attendance is critical. Summer assignments are required. Students are required to take the AP exam for college credit at the completion of the course.

***Prerequisite - Spanish III and teacher recommendation.***

**DC ITALIAN IV****Grade 12****1 credit**

Italian IV/Italian 2605 is a College in High School class in which students can earn 4 semester hours through Youngstown State University. These credits are usually transferable to other institutions, but it is best to contact the student's prospective university to be sure.

This course is intended to intensively train students in understanding, speaking, reading and writing in Italian. The students will also gain knowledge of geography and daily life as well as appreciation of the cultures of Italian speakers. Pre-requisite to this class is Italian I-III.

**Health and Physical Education****9<sup>th</sup> Grade****10<sup>th</sup> Grade**

Health (1/2)

Health (1/2)

Physical Ed. 9 (1/4)

Physical Ed. 10 (1/4)

9-12 Strength &amp; Conditioning

**HEALTH 1 Semester Grades 9-10 1/2 credit**

This course will study factual material and current information on personal, mental, emotional, and community health. Students will also study the prevention and control of diseases, nutrition, first aid and safety, the structure and functions of body systems, and the use and misuse of alcohol, tobacco, and other drugs. Our school nurse teaches a human sexuality unit.

***Credit earned by students successfully completing the Howland High School Physical Education programs will be counted toward the required 21 credits for graduation. The grade a student earns in Physical Education will NOT be calculated in the student's grade point average.***

**PHYSICAL EDUCATION****1 Semester****Grades 9-12****¼ credit**

The physical education classes teach physical fitness, exercises, tennis, softball, track, soccer, frisbee, kick ball, sports appreciation, indoor soccer, handball, badminton, pickle ball, volleyball, basketball, cricket, aerobics, stunts, tumbling, and dodge ball.

**STRENGTH AND CONDITIONING****Grades 9-12****½ credit**

This class could be offered in two levels: Non Athletic and Athletic.

The Non Athletic course will offer basic skills in strength and conditioning. The weight training program is designed to increase strength, speed, endurance, flexibility, agility, and power to condition the total body.

The Athletic course will offer advanced skills in strength and conditioning as related to sport specific training. The weight training program is designed to increase strength, speed, endurance, flexibility, agility, and power, to condition

the total body to perform the explosive and repetitive tasks encountered in practice and competition. Injury prevention is a bi-product of this course.

**PHYSICAL EDUCATION WAIVER**

**Grades 9-12**

**NO CREDIT**

Any student who participates in interscholastic athletics, marching band or cheerleading for at least two complete seasons may receive a waiver for his/her high school physical education requirements. Any student receiving a waiver will earn no credit for physical education. It is important to note that a student will need to earn an additional ½ credit towards their graduation requirements if they choose the waiver option. Students can request a waiver when they schedule in the spring.

A student will receive no waiver for any sports participation completed prior to the waiver application being approved. Students must complete the entire sports season in order to complete the waiver. A student cannot complete a sports season and then take .25 PE class to satisfy the waiver.

The above is a summary of the Ohio Core Physical Education Graduation Requirements, as required by Section 3313.603 of the Ohio Revised Code.

**Mathematics**

<p><b>9<sup>th</sup> Grade</b>                  Algebra I                  CP Algebra I                  Geometry                  Honors Geometry</p>	<p><b>10<sup>th</sup> Grade</b>                  CP Algebra I                  Geometry                  CP Geometry                  Honors Geometry                  CP Algebra II</p>
<p><b>11<sup>th</sup> Grade</b>                  CP Algebra I                  CP Geometry                  Algebra II                  Honors Algebra II                  CP Algebra II                  CP Pre Calc/Trig                  Honors Pre Calc                  AP Statistics                  Programming</p>	<p><b>12<sup>th</sup> Grade</b>                  CP Algebra I                  CP Geometry                  Algebra II                  CP Algebra II                  CP Pre Calc/Trig                  Honors Pre Calc                  Algebra III                  AP Calc                  AP Statistics                  Programming I                  AP Programming II</p>

**ALGEBRA I                      Grade 9                      1 credit**

Concepts include an application of algebraic fractions, and introduction to functions, systems of linear equations, inequalities in one and two variables, rational and irrational numbers, quadratic functions, and the basic elements of probability, statistics. Techniques of solving equations in two variables, and inequalities in one and two variables are studied and applied to solving word problems. Attention is focused on problems at a basic level of difficulty, which allows for a pace appropriate for the stage of mathematical development of the student.

*Prerequisite: 8<sup>th</sup> grade math*

**CP ALGEBRA I                      Grades 9-12                      1 credit**

This is a comprehensive Algebra I course. Concepts include an application of algebraic fractions, and introduction to functions, systems of linear equations, inequalities in one and two variables, rational and irrational numbers, quadratic functions, and the basic elements of probability, statistics. Techniques of solving equations in two variables, and inequalities in one and two variables are studied and applied to solving word problems. Attention is focused on problems at an intermediate level of difficulty, which allows for a pace appropriate for the stage of mathematical development of the student.

**GEOMETRY**

**Grades 9-10**

**1 credit**

Major topics from the Common core Standards that will be studied in this course include: understanding congruence in terms of rigid motions, understanding similarity in terms of similarity transformations, proving geometric theorems (including coordinate proofs), geometric constructions, and solving problems involving right angles.

**Prerequisite – Algebra I or a “D” in CP Algebra I**

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**HONORS GEOMETRY****Grades 9-10****1 credit**

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This is the first course in a four-year honors sequence and will be taught at a level and pace required to successfully prepare students for completion of calculus in their senior year. Major topics from the Common Core Standards that will be studied in this course include: understanding congruence in terms of rigid motions, understanding similarity in terms of similarity transformations, proving geometric theorems (including coordinate proofs), geometric constructions, and solving problems involving right triangles. Advanced algebra skills will be required.

***Strongly Recommended – “B” or better in Honors Algebra I or “A” in CP Algebra I***

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**CP GEOMETRY****10-12****1 credit**

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Major topics from the Common Core Standards that will be studied in this course include: understanding congruence in terms of rigid motions, understanding similarity in terms of similarity transformations, proving geometric theorems (including coordinate proofs), geometric constructions, and solving problems involving right triangles. This rigorous course requires a solid foundation in algebra.

***Strongly Recommended – “C” or better in CP Algebra I or “A” or Algebra I***

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**HONORS ALGEBRA II****Grades 10-11****1 credit**

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This course provides a strengthening and an extension of the skills taught in Algebra I and Geometry. Students will further develop their graphing skills and problem solving abilities. Emphasis is placed on working with quadratic functions, conic sections, and complex numbers.

***Prerequisite - Geometry***

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**ALGEBRA II****Grades 11-12****1 credit**

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This course provides a strengthening and an extension of the skills taught in Algebra I and Geometry. Students will further develop their graphing skills and problem solving abilities. Emphasis is placed on working with quadratic functions, conic sections and complex numbers, as well as, on content described in the *Standards for Transition*, a set of Mathematics Standards developed by the ACT for each score range on that college entrance examination.

***Prerequisite – “C” or higher in Geometry***

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**CP ALGEBRA II****Grades 10-12****1 credit**

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This rigorous course is designed to give the serious math student the algebraic skills that will be needed for Pre-Calculus and Calculus. An emphasis is placed on developing graphing skills and learning problem-solving strategies.

***Prerequisite - Honors Geometry – strongly recommended- “A” or better in both Algebra I and CP Geometry.***

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**CP PRE-CALCULUS/  
TRIGONOMETRY****Grades 11-12****1 credit**

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This course is designed to introduce the student to both circular trigonometry and right-triangle trigonometry. Students will also develop a foundation in the study of statistics and will be exposed to various advanced algebraic skills.

***Prerequisite - Algebra II or higher – Strongly Recommended - “C” average or better in previous math courses.***

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**HONORS PRE-CALCULUS****Grades 11-12****1 credit**

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This rigorous course is designed to give the advanced math student the background skills needed for the study of calculus. An emphasis is placed on the study of functions including circular functions and trigonometry.

***Prerequisite - HONORS Algebra II - junior or senior with a letter grade of “C” or better in Honors Algebra II.***

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**ALGEBRA III****Grades 12****1 credit**

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Algebra 3 is a full year course that is the final year of a four year core curriculum. This course provides students the opportunity to pull together and apply the accumulation of learning that they have from their previous courses and also to improve his/her math skills. Topics discussed throughout the year include: the study of functions and basic graphs; complex numbers; rational expressions; logarithms; sequences and series; basic trigonometry involving right triangles; probability and statistics to draw inferences and conclusions from data. Finally, students bring together all of their experiences to create models and solve contextual problems. Students are expected to have a good work ethic and to complete assignments every day in order to be successful.

**Prerequisite – Algebra II or a D in CP Algebra II**

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**AP CALCULUS/DUAL CREDIT****Grades 12****1 credit**

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This rigorous course is designed to give the sophisticated math student an introduction to both differential and integral calculus. An in-depth study of functions, limits, graphs, and continuity is included in the course. Students will learn how to find and apply derivatives, how to compute and apply integrals, and various techniques and applications of *antidifferentiation*. Students are required to take the AP Calculus exam for college credit at the conclusion of the course. **Prerequisite - Honors Pre-Calculus**

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**AP STATISTICS****Grades 11-12****1 credit**

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The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course draws connections between all aspects of the statistical process, including design, analysis, and conclusions. Additionally, using the vocabulary of statistics this course will teach students how to communicate statistical methods, results and interpretations. Students will learn how to use graphing calculators and read computer output in an effort to enhance the development of statistical understanding. Students are required to take the AP Statistics exam upon completion of the course.

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**COMPUTER SCIENCE/  
PROGRAMMING****Grades 11-12****1 credit**

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This course is designed to familiarize the student with problem-solving techniques using the computer. Emphasis will be on practices and principles of computer programming. The course will require completion of a number of programming assignments using programming languages such as C++ and Visual Basic. This course does **not** count as one of the 3 required math credits. It counts as an elective course.

**Prerequisite: Algebra I**

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**AP COMPUTER SCIENCE/  
PROGRAMMING II****Grades 12****1 credit**

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This course is a continuation of the Programming I course. Students will learn the Java programming language with a strong emphasis on object oriented programming and the mathematics related to programming. Students will also gain some graphics and video game programming. The course will follow the AP computer Science curriculum. This course does not count as one of the required math credits. Students are required to take the AP Computer Science exam for college credit at the conclusion of the course.

**Prerequisite: Programming I**

*lab fee*

## ***Music***

Each year of music/choir that is successfully completed, a student will earn 1.00 credit. All final grades will be computed in the student's grade point average/class rank. The first credit earned will count as a student's fine arts requirement. Credits earned thereafter will be counted in the total credits earned, as electives.

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>
Adv. Women's Choir Band Majorettes A Cappella Choir	Adv. Women's Choir A Cappella Choir Band Majorettes Music Theory/History
<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Adv. Women's Choir A Cappella Choir Band Majorettes Music Theory/History	Adv. Women's Choir A Cappella Choir Band Majorettes Music Theory/History

### **BAND** Grades 9-12 **1 credit**

Instrumental Music is open to any student at Howland High School, although it is preferred that there is some prior involvement in the Middle School and elementary grades. The Marching Band starts rehearsal in July or August and continues until the end of football season. In addition to all Howland football games, the Band performs at local band nights and at other times of community interest. The Concert and Symphonic Bands meet from October/November to the end of the school year. Performances include concerts, and solo, ensemble and large group competitions. The Pep Band plays for selected home basketball games. Jazz Ensemble starts rehearsal in January leading to performances in the spring.

### **MAJORETTE** Grades 9-12 **1/4 credit**

Students are required to learn dance routines, a certain style of marching and perform at all band night shows and other occasions at

which the marching band performs. They also attend Band Camp in August and practice during the band period each school day during marching season. In the spring of each year, try-outs are held and a panel of judges selects the majorettes on the basis of their total performance. ***Prerequisite - by selection.***

### **A CAPPELLA CHOIR**

**Men 9-12/Women 11-12**

**1 credit**

This is a year-long, advanced performance opportunity offered to all men (meeting course requirement or selected based on audition) and woman grades 11-12 (meeting course requirement or selected based on audition). The following vocal/musical skills for ensemble singing will be stressed: proper vocal production, blend and balance, sight-reading proficiency, ear training, expansion of range, technical facility, a cappella singing, dynamic nuances, and 4-6 part music. Various languages will be incorporated in the repertoire, designed to challenge and perfect the musicianship of every member. Students are expected & required to participate in several evening concerts throughout the year, as well as Large Group Competition, as it is a large portion of their grade. Chamber Choir and Another Way consist of only members from A Cappella Choir.

**Prerequisite** – Students must have a “B” or higher average from previous year (either High School or Middle School) to enter A Capella Choir. If no previous experience, students must audition for director to be selected for this group.

### **ADVANCED WOMEN'S CHOIR**

**Women 9-10**

**1 credit**

**Women 11-12 (not meeting A Cappella prerequisite)**

This ensemble is open to all female voices. Membership will be comprised primarily of freshman and sophomores. Other students may be admitted according to their music reading skills and vocal maturity. The following vocal/musical skills for ensemble singing will be stressed: proper vocal production, blend and balance, sight-reading proficiency, ear training, expansion of range, technical facility, a cappella singing, dynamic nuances, and 3 & 4 part music. Various styles of quality vocal literature are taught which expose the students to artistic beauty, develop musical sensitivity, and broaden cultural awareness. Students are expected & required to participate in several evening concerts throughout the year, as well as Large Group Competition, as it is a large portion of their grade.

**Prerequisites - a desire to sing and the ability to sing within a prescribed vocal range.**

**lab fee**

Music Theory/History is a year-long course offered to students with substantial musical backgrounds (either formal, notation-based training, or significant amounts of self-taught or “by ear” knowledge) who wish to become more familiar with musical structure, language, notation, and history of various styles of music. This course is designed to prepare a student for further Music Theory and Music History courses that one would take as a music major at the collegiate level. **Prerequisite: Instructor approval** - This elective is recommended for juniors and seniors.

## Science

### 9<sup>th</sup> Grade

Physical Science  
Honors Physical Science

### 10<sup>th</sup> Grade

Biology I  
Honors Biology I  
Physical Science

### 11<sup>th</sup> Grade

Honors Chemistry  
Chemistry  
Honors Physics  
Physics  
Physical Science  
Anatomy & Physiology  
Environmental Science  
Earth's Evolution  
Botany  
Astronomy

### 12<sup>th</sup> Grade

Honors Physics  
Physics  
Honors Chemistry  
Chemistry  
Physical Science  
Anatomy & Physiology  
Environmental Science  
Earth's Evolution  
Botany  
Astronomy  
DC Bio II

### PHYSICAL SCIENCE

Grades 9 - 12

1 credit

Physical science introduces students to key concepts and theories that will provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. Concepts will include classification of matter, atomic structure and the periodic table, bonding and chemical reactions, energy, waves, and electricity, forces and motion, and a brief introduction to the universe.

### HONORS PHYSICAL SCIENCE

Grade 9

1 credit

The advanced physical science curriculum will follow the general physical science course content with a greater attention to further

develop proper laboratory procedures creating a deeper understanding of concepts. Through the utilization of inquiry based instruction students will apply current knowledge to new situations to become independent learners. Students will be expected to manipulate mathematical equations to calculate data and apply results to solve real world problems. Students are required to have a B or better in 8<sup>th</sup> grade science.

### HONORS BIOLOGY

Grade 10

1 credit

This course will stress independent student learning combined with in depth classroom work on the following major fields: biochemistry, zoology, ecology, microbiology, genetics, evolutionary biology, cell biology, zoology, ecology, and botany. In addition to the biology course work, students will be required to do research on each of the course topics and produce either an experiment or a teacher approved project which will enrich their comprehension of the topic.

**Strongly recommended: a “B” or better in Algebra I; or “B” or better in Language Arts I; or “A” in L. A. gr. 8; or “A” average in gr. 8 science with teacher recommendation; or “B” or better in C.P./Honors English 9.**  
**Summer reading requirement.** *lab fee*

### BIOLOGY I

Grades 10

1 credit

General biology begins with molecular and cellular biology, from which it moves to reproduction and genetics. This is followed by evolution, classification, microbiology, multi-cellular plants, and is concluded with multi-cellular animals. This sequence helps to build a suitable background for the beginning biology student. Labs are used whenever possible to supplement and reinforce the text materials. *lab fee*

### ANATOMY AND PHYSIOLOGY

Grades 11-12

1 credit

Anatomy and Physiology studies the phylogenetic transition from invertebrates to vertebrates, including an insect collection. the major classes of the phylum Chordata are surveyed including dissections of fish, amphibians, reptiles, birds, and mammals. Homeostasis and the interdependency of the human body systems are explored. The course ends with an ecological perspective to current issues in human biology (i.e.: carcinogens, evolution, and agriculture).

**Prerequisite – Biology and passage of the science part of the Ohio Graduation Test**

*lab fee*

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**HONORS CHEMISTRY****Grades 11-12****1 credit**

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Honors Chemistry is an accelerated and more rigorous Chemistry course designed to offer students the opportunity to master core principles of chemistry. Students will be engaged in a broad spectrum of chemistry including: the study of matter and energy, atomic structure, chemical bonding, chemical reactions, stoichiometry, reaction kinetics and equilibrium, gases, the behavior of solutions, acid-base reactions, oxidation-reduction reactions, thermochemistry, electrochemistry, nuclear chemistry, and organic chemistry. The approach is both mathematical as well as conceptual. Lab skills will be developed to reinforce the understanding of chemical concepts and principles. This option is recommended for the students who are motivated to complete extra study and work demands and are interested in pursuing careers in the medical, engineering, or scientific fields.

***Prerequisite - Honors Algebra II or CP Algebra II; summer reading requirement.***

***lab fee***

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**CHEMISTRY****Grades 11-12****1 credit**

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Chemistry I investigates fundamental laws and concepts of chemistry, including composition of matter and the physical and chemical changes it undergoes, atomic structure, the periodic law, chemical bonding, chemical nomenclature, chemical equations and reactions, stoichiometry, physical behavior of gases, solutions, and acid-base theory. The approach is both mathematical as well as conceptual. Lab skills will be developed to reinforce the understanding of chemical concepts and principles.

***Prerequisites - Currently taking or have taken Honors Algebra II or CP Algebra II***

***lab fee***

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**HONORS PHYSICS****Grades 11-12****1 credit**

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Honors physics will stress student directed laboratory work that examines the relationships between matter and energy. Students will research, develop, and problem-solve in the lab and on the computer to verify the concepts involved. A portfolio of laboratory work will be created in the form of a lab journal. Students are expected to research various topics and write papers on selected topics.

***Prerequisite - Chemistry or Biology II, students must be enrolled in Honors Pre-Calculus, Calculus, Trigonometry, and teacher recommendation; summer reading requirement.***

***lab fee***

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**PHYSICS****Grades 11-12****1 credit**

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Physics is a physical science that deals with the interrelationships of mass and energy. Applied forces are studied to understand work and energy and explain how machines work. Heat and electrical forces are examined to determine their effect upon matter, as are light, sound, and nuclear energy.

***Prerequisites - Completion of Advanced Algebra II and enrolled in Trigonometry, Pre-Calculus, or AP Calculus.***

***lab fee***

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**ENVIRONMENTAL SCIENCE**  
**(semester course)****Grades 11-12****.5 credit**

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Environmental science is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course satisfies 0.5 of the required three courses required by the state.

Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science.

Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

***lab fee***

**EARTH'S EVOLUTION**  
**(semester course)**

**Grades 11-12**

**.5 credit**

Earth's Evolution is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course satisfies 0.5 of the required three courses required by the state.

This course explores the connections between the physical, chemical, and biological processes that govern the earth system with an emphasis on the origin of the earth and the changes in life as they relate to geologic phenomena. Standards incorporated in this elective vary from 9<sup>th</sup> to 12<sup>th</sup> for Inquiry, Maps, Matter and Minerals, Rocks and the Rock Cycle, Plate Tectonics, Evolution, and Geologic History.

**BOTANY**  
**(semester course)**

**Grades 11-12**

**.5 credit**

Botany is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course satisfies 0.5 of the required 3 courses required by the state.

This course explores the connections of plants and their relationships to the environment around them. Students will study the growth, reproduction, anatomy, morphology, physiology, taxonomy, genetics and ecology of plants. Standards incorporated in this elective vary from 9<sup>th</sup> to 12<sup>th</sup> for Inquiry, Matter and Energy in Ecosystems, Genetics, Evolution, Population and Community Ecology, Photosynthesis and Respiration, and Taxonomy.

**ASTRONOMY**  
**(semester course)**

**Grades 11-12**

**.5 credit**

Astronomy is a high school level course, which satisfies the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of Ohio law requires a three-unit course with inquiry-based laboratory experience that engages students in asking valid scientific questions and gathering and analyzing information. This course satisfies 0.5 of the required 3 courses required by the state.

This course explores the modern understanding of the universe in comparison to the historical perspectives, astronomy and society, the solar system, stars, galaxies, and a relative overview of the Big Bang Theory. Standards incorporated in this elective vary from 9<sup>th</sup> to 12<sup>th</sup> for Inquiry and Application, Geologic History, Reactions of Matter, Waves, Thermal Energy, History of the Universe, Galaxy Formation, and Stars.

**DC BIO II**

**Grades 11-12**

**1 credit**

Bio2601: General Biology: Molecules and Cells is an introductory course at the college level surveys the chemical and physical foundations of life, structure and function of cells and organelles, metabolism, basic molecular biology and inheritance, and principles of evolution. This course is not like high school biology and is very rigorous in the type of material and quantity. Doing well in this course is something a student should be proud of and should view as a measure stick for the success he/she may experience at the next level of their education.

**Social Studies**

**HONORS WORLD STUDIES**

**Grade 9**

**1 credit**

**9<sup>th</sup> Grade**

Hon. World Studies  
World Studies

**10<sup>th</sup> Grade**

Hon. U.S. History  
U.S. History

**11<sup>th</sup> Grade**

U.S. Govt.  
Psychology  
U. S. History  
AP Govt.  
AP Psychology

**12<sup>th</sup> Grade**

Psychology  
U.S. Govt.  
AP Govt.  
AP Psychology

This course focuses on research, analytical thinking, in-depth problem solving, group activities, independent study, and reading. It will be conducted in a collegial style. The course begins with the ideas of the Renaissance and Enlightenment and those ideas that shaped our current world. ***Strongly Recommend – “B” or better in Language Arts I or an “A” average in Language Arts 8 and “A” average in 8<sup>th</sup> grade US History/Civics and teacher recommendation. Summer reading requirement.***

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**WORLD STUDIES****Grades 9****1 credit**

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This course is a chronological study of society from the Enlightenment to the present. Special emphasis is placed on the more significant events, movements, and personalities that have been pivotal in shaping our world. Special attention is paid to other cultures and their perspectives. World Studies also incorporates the significance of geography and economics into the decisions made in the world arena.

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**HONORS U.S. HISTORY****Grades 10****1 credit**

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This course will be conducted in a collegial manner and will focus upon independent study, analytical thinking, research, in-depth reading(s), group activities, essay writing, and note taking skills. It will begin with 1877 to the present day in American History. ***Strongly Recommended: Honors World Studies, or “A” in World Studies and Teacher Recommendation. Summer reading requirement.***

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**U.S. HISTORY****Grades 10-11****1 credit**

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U.S. History will introduce the student to the variety of American experiences in the past and its impact upon the present from the Civil War to the present. Emphasis is placed upon a factual understanding of the topics in the U.S. History through class lectures and discussions. Course requirements include essay writing, objective examinations, quizzes, and book reviews and/or research projects. This course will include a study of the historical documents.

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**U.S. GOVERNMENT****Grades 11-12****1 credit**

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Government is designed to introduce the student to the principles of our American system of government including a study of the historical documents. A treatment of public opinion and how the democratic process is affected by opinion is developed. The student is exposed to the three branches of government (legislative, judicial, and executive) and studies how they operate to provide a balance of power. Concepts of our economic and financial systems will be covered throughout the course. A brief look at other political systems, plus Ohio state and local government completes the course.

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**AP GOVERNMENT****Grades 11-12****1 credit**

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This course is designed to enhance the comprehension of our U.S. Government through in-depth, rigorous research analysis and active participation in a democratic society. Components of how American government works will be instructed as well as developing a comprehension of why the government acts as it does. This course includes the study of constitutional underpinnings, political culture and socialization, civil liberties and civil rights, citizen participation and influence, policy making, and political institutions. The class will develop aptitudes to acknowledge government process and influence beyond the walls of the classroom. The use of multiple assessments such as interpretive free-response questions, problem based learning, inquiry based questions, and cooperative learning will be used cultivate knowledge among the students. **Students are required to take the AP Government & Politics exam upon completion of the course.**

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**AP PSYCHOLOGY****Grades 11-12****1 credit**

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This course will introduce students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. There are no prerequisites for AP Psychology. **Students are required to take the AP Psychology test upon completion of the course.**

## Work and Family Living

### 9<sup>th</sup> Grade

Healthy Living  
Financial Mgmt. I

### 10<sup>th</sup> Grade

Career Search II  
Healthy Living  
Financial Mgmt. I  
Child Development

### 11<sup>th</sup> Grade

Healthy Living  
Financial Mgmt. I  
Healthy & Safe Food  
Child Development

### 12<sup>th</sup> Grade

Healthy Living  
Healthy & Safe Food  
Financial Mgmt. I  
Child Development

### HEALTHY LIVING

**Grades 9-12**      **½ credit**

Develop practical problem solving that influences cultural and social factors that affects the body weight and healthy lifestyles. Students evaluate information related to advances in food technology, nutrition and safety. Students will evaluate the impact of consumer choice on the environment and the global community.      **lab fee**

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### **FINANCIAL MANAGEMENT I** **(semester course)**

**Grades 9-12**

**½ credit**

Course provides students with an understanding of the concepts and principals involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts, and consumer protection. These courses may also provide an overview of the American economy.      **lab fee**

### **CAREER SEARCH II**

**Grades 10**

**½ credit**

**(with Career Mentorship/Grade 10)**

This is a required course. Areas of study would include assessing career plans, managing job searches, and examining career and workplace issues, develop essential interpersonal skills, communication skills and workplace related skills. The course has a mentorship experience attached.      **lab fee**

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### **CHILD DEVELOPMENT**

**Grades 10-12**

**½ credit**

Provides students with knowledge of how parents and child care providers meet the needs of infants and young children to provide for health growth and development. Prominent theories of child psychology will be studied.      **lab fee**

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### **HEALTHY & SAFE FOODS**

**Grades 11-12**

**½ credit**

Develop practical problem solving that influences cultural and social factors that affect the body weight and healthy lifestyles. Demonstrate safe food-handling practices related to food-borne pathogens and kitchen environments. Students gain knowledge and skills in acquiring and practicing a healthy life style using dietary guidelines that will reduce the risk of chronic disease and unsafe habits.      **lab fee**

# **Trumbull Career & Technical Center/TCTC**

Howland students planning on entering the workforce, military, apprenticeship or continuing their education at a university, college, tech school or trade school may choose to attend TCTC for their Junior and Senior Year. Below you will find some frequently asked questions. Please feel free to call the High School Guidance Office if you have any additional questions or need more information.

## **If I attend the TCTC, does that mean I am no longer a student at my home school?**

No! You always remain a student at your home school, too. You receive your diploma from Howland and attend commencement exercises, school dances, sporting events, etc.

**Does attending the TCTC mean that I can no longer participate in extracurricular activities at my home school?** No, TCTC students are dismissed at 2:00 pm daily, allowing plenty of time for you to return to your home school for extracurricular activities.

## **At the TCTC, will I be involved with my chosen area of interest all day?**

TCTC students spend approximately one half of each day in their chosen programs. The other half of each day is spent in academic classes.

## **What academic classes will I take at the TCTC?**

TCTC students take English each of the two years they attend and Government for one of the two years. Students also receive at least one math and one science credit during their two-year program of study. Math courses range from integrated Math up through Trig/Pre-Calculus and Calculus. Science courses range from Integrated Science up through Physics. Students, together with their home school counselors, select the math and science levels which best fit their needs.

## **What do I do if I am behind in credits toward graduation?**

Since there are limited opportunities to make up credits once a student is at the TCTC, students who are more than two credits deficient will not be accepted.

## **Can TCTC students attend college after graduation?**

TCTC students can and do attend a variety of post-secondary institutions after graduating from their home schools and receiving a TCTC certificate of completion. These options range from trade and technical schools to two – and four-year colleges.

Below is a list of career opportunities offered at Trumbull Career & Technical Center (TCTC):

Air Force Jr. ROTC	Biotechnology	Electrical Technology
Animal Science/Equine	Community Co-op	Engineering Technology
Animal Science/Health & Tech	Computer Networking	Exercise Science
Architectural Drafting	Construction Technology	Health Science Academy
Auto Collision Technology	Cosmetology	Hospitality Services
Auto Services Technology	Distribution and Warehousing	HR Fabric Services
Interactive Multimedia	Manufacturing Technology	Public Safety
Interior Design	Marketing Education	Restaurant Services.
Landscape & Design Technology	Power Equipment Mechanics	