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Dear Students and Parents:

This Program of Studies Booklet is your guide to help you decide what course selections to make. This booklet will help you understand the programs available, the courses offered, graduation requirements, and the scope of our counseling services.

Please read the booklet carefully. The entire faculty is available for questions, but it is primarily your responsibility to carefully plan your program to fit your individual needs.

We are confident that the education you receive at this school will provide you with the skills and knowledge necessary to succeed in the future.

Houlton High School does not discriminate on the basis of race, color, sex, sexual orientation, ancestry or national origin, or disability. This policy is consistent with the mission of a public high school and an equal opportunity employer and operates in accordance with federal and state laws regarding nondiscrimination.

HOULTON HIGH SCHOOL
MISSION STATEMENT

We are dedicated to providing, in a safe environment, the support necessary for academic, vocational, and social achievement in an increasingly technological society. We encourage students to realize their potential, to appreciate diversity, to be life-long learners and to be responsible members of society.

ACADEMIC EXPECTATIONS: Students will demonstrate academic skills in the following areas:

- Problem solving
- Communication
- Use of technology
- Research
- Collaboration

CIVIC/SOCIAL EXPECTATIONS: In accordance with the RSU #29 Code of Conduct, students will be:

- Respectful
- Responsible
- Trustworthy
- Honest
- Kind
GENERAL REQUIREMENTS FOR GRADUATION

Requirements for graduation are clearly articulated below. There are two specific criteria all students are required to meet to qualify for graduation. The first one is the credit requirement. All students are required to accumulate 24 credits to qualify for graduation. Students receive a credit by passing a course with a grade of 70 or better for the year. Final decision on awarding credit rests with the principal, per state statute. Students who are in grades 9 and 10 are required to take 6.5 credits yearly and grade 11 and 12 students must take a minimum of 6 credits each year. The general requirements for each grade level, particularly what specific classes are required, are clearly delineated below.

To qualify for graduation, students must also show proficiency in identified graduation standards in specific classes. These specific graduation standards are those standards within identified classes that RSU 29 has determined to be critical foundational knowledge within the content area. These specific standards will be measured and reported out using the 1-4 scoring system. All students will be required to attain at least a 3 to be determined proficient on all of these specific graduation standards. A score of 1 means substantially below proficiency and a 2 means the student is partially proficient. A score of 4 means a student is exceeding what is expected. As stated earlier, the requirements for each grade and class are clearly delineated below.

Academic Requirements for Graduation from Houlton High School
Class of 2020 and beyond

- English – 4 credits and a 3 level proficiency in identified graduation standards in each course
- Math – 3 credits and a 3 level proficiency in identified graduation standards in each course
- Science – 3 credits and a 3 level proficiency in identified graduation standards in each course
- Social Studies – 3 credits and a 3 level proficiency in identified graduation standards in each course
- Fine Art – 1 credit
- Health -.5 credit and a 3 level proficiency in identified graduation standards in each course
- Physical Education – 1 credit and a 3 level proficiency in identified graduation standards in each course
- Electives 6.5
- Number of credits per year minimum 6.5 for grades 9 and 10. 6 credits for grades 11 and 12.

Should the Legislature make changes in LD 1422 that impact the requirement for additional proficiencies in courses, you will be notified and allowed to make adjustments.
COURSE LOAD

All students are required to take a full course load as outlined in the previous section. Exceptions may be made through the special education program.

Partial schedules may be arranged through an approved home schooling program, through the Alternative Program, the Transition Program, or with specific approval of the Administrative team, usually comprised of principal, assistant principal, and guidance counselor.

Attendance at summer school is recommended for students who fail required courses (Summer school is not always offered). Students are allowed to make up 1 or 2 credits during the summer. A student may make up required work to meet proficiency standards for that course with permission of the teacher in that failed subject. All summer school make up classes must be approved by the administration before the start of the class. Required courses that cannot be taken during the summer will be made up during the following school year. Credits may also be made up by taking Adult Education, or other options which have been pre-approved by the school counselor and the principal. Adult Education classes must have prior approval by the school counselor and the principal. Any other option for credit recovery chosen by a student must have prior approval by both the school counselor and the principal.

If approved by the principal and guidance counselor, Houlton High School may accept credits toward a high school diploma from another educational institution. Payment for these courses may be the responsibility of the student. College courses, for example, may be available for qualified juniors and seniors. The credit will be put on the student’s transcript. These college courses are considered elective credit only. The credits may not be substituted for a required graduation credit without special permission of the high school administration. A reminder that prior approval of the guidance counselor and/or the principal must be given before the student takes a college course.

College Courses

General Information
Juniors and seniors with a B average and permission from Houlton High School administration are eligible to take college courses through the college aspirations program. Up to six (6) college credits of tuition per semester is waived. Students are responsible for the cost of books and any fees associated with the class.

College classes may be considered part of the required six (6) credits one must take to be considered a full time student. These college courses are considered elective credit only. The credits may not be substituted for a required graduation credit without special permission of the high school administration.

The university or community college system has the right to deny enrollment in a course if they believe the student is not academically capable of handling the class.

Credit for college courses
A 3 or 4 college credit class is the equivalent of a one-half (1/2) high school credit for prior approved college courses. Students will also be eligible for college credits as offered by the college system.
**Dual Enrollment courses**

Dual enrollment classes are available as part of the Houlton High School offerings during the high school day. These classes are taught by high school teachers who have been approved as adjunct instructors by the offering college or university. Students may receive college credit as well as high school credit for these classes. Dual enrollment courses have a tuition charge associated with them that varies from approximately $15 to $45 a credit hour. Universities will bill each student for the cost of each course. Students must receive a grade of 85 or higher to be eligible for college credit.

Current dual enrollment classes being offered:

- CP English 12 - ENG 101 and ENG 151 UMPI
- AP English 12 - ENG 101 and ENG 151 UMPI
- U.S. Government - GOV 200 and American Government UMFK
- CP U.S. History - HYT 161 and HYT 162 UMPI
- AP U.S. History - HYT 161 and HYT 162 UMPI
- AP English Literature - ENG

**RECOMMENDATIONS FOR ALL STUDENTS**

**RECOMMENDATIONS FOR 2 AND 4 YEAR COLLEGE STUDENTS**

The academic work at Houlton High School is demanding, and a high performance level is expected of each pupil. Students are also expected to develop Habits of Mind that will enable them to work quite independently. Two years of the same world language is often required for four (4) year colleges and universities. Some competitive colleges and universities require three (3) years of a world language. Requirements of specific colleges and universities are available in the Guidance Office or online. Your chances of being accepted to the college or university of your choice is greatly enhanced by taking a strong academic program.

**STUDENTS ENTERING A TWO YEAR COMMUNITY COLLEGE**

Students may pursue a two year associate’s degree. The Maine Community College System offers a transfer of the two year Associates degree program to Baccalaureate degree programs at a University of Maine system providing the students maintain the necessary grade point average. Careful selection with a college advisor is recommended to insure this transition.

Many students take a combination college preparatory and technology program classes. Each student’s schedule is planned in accordance with his/her own abilities and interests. Careful consideration is given to the pupil’s post-high school plans. Students must always keep in mind the school requirements for graduation.

**Early Graduation**

Normally, students progressing through the school system will be enrolled for four years at Houlton High School. It is recognized, however, that there may be exceptional students who complete their high school program in less than four years. Students wishing to graduate early shall petition the School Directors, through the Principal and the Superintendent, for a hearing on this matter by MAY 30 OF THE YEAR PRIOR TO EARLY GRADUATION. Each case of early graduation will be considered on its own merit, provided that parents of minor children agree and that all graduation requirements are met. When students graduate early, they maintain a GPA but are not ranked in class with the graduating class.
Occasionally students will attend a college prior to their high school graduation. These outstanding students who have not earned a high school diploma may be granted a diploma at the discretion of the high school principal upon successful completion of one year of full-time study at an accredited degree granting institution of higher education. (Provided the student fulfills all graduation requirements)

**Participation in Graduation Ceremonies Class of 2020**
TO BE AWARDED AN HONOR PART IN THE GRADUATION CEREMONIES, A STUDENT MUST MAINTAIN AT LEAST A “B” AVERAGE (85.0) AND FULFILL THE REQUIREMENTS LISTED BELOW:

The Valedictorian, Salutatorian, and other graduation honor parts will be determined from an individual student’s rank in class based upon grades earned in course work taken over seven (7) semesters at state approved secondary schools. These seven (7) semesters include two (2) semesters each from grade 9, 10, 11, and the first semester of grade 12. In addition, a student must be enrolled on the first day of junior year, and fulfill an attendance requirement of two (2) semesters for grade 11 and two (2) semesters for grade 12 as a full-time day student at Houlton High School. Students who enroll in courses in Region II School of Applied Technology while at Houlton High School shall be considered as satisfying the attendance requirement. Students transferring from unapproved secondary schools or not meeting the attendance requirement will be provided a GPA for college admissions purposes only, but no class ranking.

To participate in graduation ceremonies from Houlton High School, a student must have earned a Houlton High School diploma as described in this policy. An exception may be made by administration for students who leave Houlton High School before graduation and complete one year of full time study at an accredited degree granting institution of higher education.

**National Honor Society**
To be eligible for NHS, juniors and seniors must have maintained an accumulative grade point average (GPA) of 90. In addition, students must have a 90 average in their core English, science, math, social studies, and foreign language classes. Candidates must meet all other criteria as outlined in the NHS charter.

**Report Cards and Examinations**
Grades are stored in PowerSchool at the end of each quarter. Parents/guardians have access in PowerParent to the updated grades. Anyone needing a paper copy can contact the guidance office for such. In grading schoolwork, the following system is employed: A (93-100), B (85-92), C (77-84), D (70-76), F (Below 70). Quarterly honor rolls are computed as follows: Highest Honors Principal Award to all students who receive an “A” average (93 or above, with no D grade or below) during the quarter. Honor Roll 85-92 average with no D grade or below. Students with an Incomplete in any subject at the time of Honor Roll posting, will not be included on the Houlton Roll.

**Eligibility for Participation in Extra-Curricular Activities**
Extra-curricular eligibility is based on the previous nine-week grades. Students should check the student handbook for specific requirements to participate.

**Attendance Policy**
Regular attendance is necessary if a student desires to get the most from his/her school education. A good attendance record is also very important in applying for jobs and asking for recommendation letters after leaving high school. We will keep parents informed about those students who have attendance problems.
GUIDANCE SERVICES

Guidance services at Houlton Middle and High School shall be available to all students in Grades 6 through 12. These services shall be student oriented, using a developmental approach, helping students discover and achieve their individual potentials. Guidance, administration, and staff will work together to ensure a climate of excellence and to assist students in achieving their goals and aspirations.

Guidance services include:

A. Counseling – Counselors are student advocates knowledgeable in the complexities of human relationships. Counselors, in a confidential setting, are available to assist students with either personal or academic concerns.

B. Testing – Testing is provided to determine a student’s interests, skills, and abilities. Test results are used to assist students making decisions concerning their course selections and career plans. Counselors are helpful in discussing these results with students, teachers, and parents.

C. Placement. – Your Counselor can assist you in planning for the future. Choosing a career can be one of the most important decisions you will ever make. No matter what career path you choose, your high school record is extremely important. Colleges, vocational schools, and most careers have specific course requirements.

D. School Record – Your school record contains information about grades, attendance, test scores, grade average, and position in class. In addition, a health record is maintained. Your school record becomes a permanent part of your school file and is maintained, perpetually, at Houlton High School.

Your school counselor is here to help you, the student. The guidance office is open at all times when school is in session. Students are always welcome to drop in during their free periods or make a special appointment. Your counselor will arrange at least one routine interview with each high school student to review a student’s records and progress. The counselors are always willing to serve you. Parents are also welcome to discuss the progress and plans of pupils. Appointments for parents can be arranged by calling 532-6551.

**Weighted Grades**

Weighted grades recognize that students are taking the rigorous classes offered at Houlton High School. It also recognizes classes taken at the college level.

Weighted grades are not calculated in the course grades but rather calculated into the Grade Point Average (GPA) and class ranking process.

Grades in which the weight will be applied to the GPA calculation are being offered in the following classes:

- 8% for AP Classes
- 5% for Honor Classes, Physics, Calculus, Spanish IV, French IV, and 200+ college classes.
- 3% for Trigonometry, Spanish III, French III and entry level (100+) college classes.

**Registration Procedures for Freshman**

Registration night will be held for parents and students.
**Registration Procedures for Sophomores and Juniors**
The following steps are necessary before your registration for next year can be finalized:

1. Read the information concerning General Requirements for Graduation, Major Programs, and Suggested Programs.

2. Select rigorous classes which prepare you for continuing a career path.

3. Study the descriptions of required, recommended, and elective courses which apply to your career goals.

4. Using your registration sheet, select your courses for next year. We will begin this process by working in groups. You should then discuss your selections with your parents, teachers, and advisor. Once you have decided on your course selections, you will register individually online.

**NOTE:** Once your schedule is completed online, it must be approved by your school counselor. Once your schedule is approved, you are committed to your class schedule and no changes can be made without the specific approval of your parent/guardian and a school counselor.

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**ENGLISH CURRICULUM**

**Freshman Year**
- English 9
- English CP 9
- English Honors 9

**Sophomore Year**
- English 10
- English CP 10
- English Honors 10

**Junior Year**
- English 11
- English CP 11
- English Honors 11

**Senior Year**
- English 12
- English CP 12
- English AP 12
MATHEMATICS SEQUENCE

Selection of Math courses may be recommended by the educational team based on test scores, grades, and teacher recommendations. Students can progress to calculus in two ways. Some students may take CP Algebra I in grade 8 which will be recorded on the high school transcript. Some students may opt to take CP Algebra II and CP Geometry in grade 10, and then take Trigonometry before taking Calculus. CP Algebra I may not be taken with another math class; however, students will be permitted to take two (2) math classes in the same academic year with permission from the Mathematics Department. When students accelerate in mathematics, classes taken before high school, per State regulation, cannot receive high school credit or be calculated into the cumulative GPA. The graduation requirement is that students take four (4) math credits in high school.

Math labs are provided for students in CP Algebra who need supplementary assistance for grade 9 & 10.

Math Sequence

Freshman Year
Algebra I CP with Lab
Algebra I
CP Algebra I
Honors Algebra I

Sophomore Year
Geometry
CP Geometry
Honors Geometry

Junior Year
Algebra II
CP Algebra II
Honors Algebra II

Senior Year
Applied Math for Trades
Applied Math for Technology
CP Applied Math for Trades
CP Intro to Statistics
CP Intro to Trig.
CP Math for Technology
Trigonometry/Advanced Math
CP Calculus
AP Calculus (through AP 4 ALL)
NOTE: This course progression may vary based on math courses completed by a student when in the grade 6 to grade 8 span.

Science Sequence

Freshman Year
Intro. to Computer Science and Earth Science are heterogeneous classes which will include all freshmen. They are considered college preparatory classes.

CP Biology: To enroll in this class as a freshman, the students must have a 93 or above in grade 8 science and have the recommendation of their science teacher. Completion of Algebra I as an 8th grader is highly recommended.
**Sophomore Year**
Biology with lab - (Biology is a heterogeneous class which will include all students. It is considered a college preparatory class)

Introduction to Physics/Chemistry* (college preparatory class)

CP Chemistry (To enroll students should have a 93 average or above in biology, and a recommendation of their teacher. In addition, students in this fast track should have completed CP Algebra II by the end of the 10th grade year. Students taking Chemistry will need to take Physics in either students’ junior or senior year.

**Junior Year**
CP Intro to Phys/Chem
CP Chemistry or CP Physics
Environmental Science

All students are expected to complete a program that includes both chemistry and physics. This expectation can be met by taking Introduction to Physics and Chemistry or by taking both Chemistry and Physics

**Senior Year**
CP Physics or Human Anatomy & Physiology
Environmental Science
Natural Science (for students enrolled in Forestry)
Forensics
Principles of Molecular Genetics with lab
CP Computer Science Principles
AP Computer Science Principals
Human Anatomy and Physiology

**Houlton High School**
**Possible pathways within the Science Curriculum**

<table>
<thead>
<tr>
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<th>CP or General Algebra II as Juniors</th>
<th>CP or Honors Algebra II as Sophomores (scores of proficient or advanced)</th>
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<tbody>
<tr>
<td>Freshmen</td>
<td>Intro Comp Sci/Earth Sci</td>
<td>Honors Biology</td>
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<tr>
<td>Sophomore</td>
<td>CP Biology</td>
<td></td>
</tr>
<tr>
<td>Junior</td>
<td>CP Intro Phys/Chem**</td>
<td>CP Physics**</td>
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<tr>
<td></td>
<td>CP Computer Science Principles</td>
<td>Human Anatomy &amp; Physiology</td>
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<tr>
<td></td>
<td>(struggles in math, planning on 2</td>
<td>Forensic Science</td>
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<td></td>
<td>year degree, technical school,</td>
<td>Environmental Science</td>
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<td></td>
<td>workplace)</td>
<td>Principle of Modern Molecular</td>
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<td></td>
<td></td>
<td>Genetics</td>
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<tr>
<td></td>
<td>CP Chemistry (planning on 4 year</td>
<td>AP/CP Computer Science Principles*</td>
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<td></td>
<td>college degree)</td>
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<tr>
<td>Senior</td>
<td>Any of the above Junior courses</td>
<td>Any of the above</td>
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<tr>
<td></td>
<td>CP Chemistry</td>
<td>Junior courses</td>
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<td></td>
<td>Human Anatomy &amp; Physiology</td>
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<td>Forensic Science</td>
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<td>Principle of Modern Molecular</td>
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<td></td>
<td>Genetics</td>
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<tr>
<td></td>
<td>AP/CP Computer Science Principles*</td>
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</table>

*AP Available  **must be taken junior OR senior year*
GRADE 9 (FRESHMAN) COURSES

Required:  English 9 (with teacher recommendation only)
           CP English 9 or
           Honors English 9
           Freshman History Seminar
           Math at appropriate level
           Intro to Computer Science
           Earth Science
           CP Biology (with permission)
           Health (1/2 cr)
           Physical Education (1/2 cr)

Please read course descriptions carefully and choose electives open to grade 9 students which are contained within the descriptions of courses.

Two years of a World Language is strongly recommended for students planning to attend a 4-year college or university.

GRADE 10 (SOPHOMORE) COURSES

Required:

           English 10 (with teacher recommendation only)
           English CP 10 or
           Honors English 10
           Math at appropriate level
           Biology with lab - Please note the science sequence
           CP Chemistry with lab
           (10th grade students can take CP Chemistry with lab if they have earned an “A” in Honors Biology, have a recommendation from the biology teacher, and are scheduled to complete CP Algebra II by the end of Grade 10).
           AP European History or
           CP World History or
           World History
           Physical Education (1/2 credit)

Two years of a World Language is strongly recommended for students planning to attend a 4-year college or university.

Add at least one elective (you must register for a minimum of 6.5 credits).

Choose a math course commensurate with your interests and abilities.

***STUDENTS INTERESTED IN ENTERING A HEALTH CAREER SHOULD TAKE CP CHEMISTRY AT SOME POINT IN HIGH SCHOOL)***

English and Mathematic classes are sometimes determined by an educational team decision based on grades, test scores, and teacher recommendations.
GRADE 11 (JUNIOR) COURSES

Honors English 11
English CP 11 or
English 11 (with teacher recommendation)
AP U.S. History or
CP U.S. History or
U.S. History
Math at appropriate level

Science (please note science sequence listed earlier).

NOTE:

• Math course commensurate with your interests and abilities must be taken in the junior year;
• Add three 1-credit electives OR one Region Two School of Applied Technology 4 credit course;
• Students planning to enter many health careers such as nursing should take CP Chemistry with a lab before they graduate;
• English and mathematics classes are sometimes determined by an educational team decision based on
  grades, test scores, and teacher recommendations; and
• Please choose electives from the course descriptions and the Region Two School of Applied Technology
  list. Region Two programs are four (4) credits and are three or four blocks long.

GRADE 12 (SENIOR) COURSES

AP English 12 or
CP English 12 or
English 12 (with teacher recommendation)
Math at appropriate level
Science

Note:

• Please see the Region Two School of Applied Technology course titles below;
• *Students must take at least 6 credits per year. Select electives from the electives list in the course
descriptions. Students taking a full-time Region Two School of Applied Technology course must take
three (3) additional credits, one of which is English. It is important to check graduation requirements as
listed on Page One of this document;
• It is important that your senior year is filled with challenging courses that will prepare you for your
  future. Colleges and universities view the senior year as EXTREMELY IMPORTANT and acceptance
to these colleges and universities may depend on the strength of your course of study and the quality of
work you produced.
• English and mathematics classes are sometimes determined by an educational team based on grades, test
  scores, and teacher recommendations.
The Bridge Program

~Who we are~

The Bridge Academy Maine program’s purpose is to promote and administer dual enrollment college courses and CTE experiences for Maine high schools and students. Bridge Academy operates statewide and will be in its ninth year in 2020-21.

~About the Program ~

The Bridge Academy Maine program presents an opportunity to high school students that includes:

• Obtaining an integrated technical skill-based education that ties academics to real world careers through integrated CTE based labs.

• Dual enrollment with an opportunity to earn 24+ college credits by high school graduation from universities and colleges of the University of Maine System and the Maine Community College System. Bridge Academy and other dual enrollment offerings allow a student to earn high school and college credit at the same time through college courses that are often taught at the high school by high school instructors approved by college faculty.

• Exclusive scholarship opportunities for low-income families through our program as well as a partnership with the Department of Labor, known as the Competitive Skills Scholarship Program (CSSP).

• Additional career assessment, exploration, and advising while in high school. Including the World of Work Inventory (WOWI) assessment and the Opportunity Ready Badge (also worth 3 credits) through Eastern Maine Community College.

• The potential to complete an Associate’s degree in Applied Science within 12 months and/or a Bachelor’s Degree within 36 months following high school graduation, saving time and money.

• Transfer of these earned credits to many other post-secondary schools.

~How is Bridge Academy different from other dual enrollment courses~

Bridge Academy provides more than a menu of college courses. We focus on preparing students for success in college. We begin with a summer academy before beginning college courses in the student’s junior year to explore the ties between career and higher education, and stress the concept of “investment” in the future. We aim to place students in college courses that stretch over a full year (36 weeks) rather than just a college (15 week) semester so that students are able to catch up on high school content while they are taking their first college courses. High school teachers then transition their teaching style during the year to the rigor and format of typical college instruction. We select courses for the Bridge Academy on the likelihood that most colleges and universities will accept them as useful credits towards most degrees. Finally, we provide a second summer academy between the junior and senior years for students to visit colleges and universities in Maine and to learn about the inner workings of those institutions.

Region Two Programs

NOTE: Science credits awarded through a Region Two Program will not be considered NCAA approved
Region Two Programs

Auto Collision
Automotive Technology
Culinary Arts
Early Childhood Education
Emergency Medical Technician
Forest Management & Operations
Health Science
Intro to Medical Professions
Law Enforcement
Mechanical Services Technician
Residential Electrical
Welding/Metal Fabrication

Region Two
School of Applied Technology

Our goal is to provide each student with a skill that can be the beginning of a successful career

Region Two School of Applied Technology was established in 1973 to provide Career and Technical Education in the area served by five (5) high schools: East ware, Hodgdon, Houlton, Katahdin, and Southern Aroostook School.

Region 1

TE

Career & Technical Education

FOR INFORMATION ABOUT OUR PROGRAMS CALL: 532-9541
Auto Collision (Houlton -All day every other day): This program combines textbook learning with hands-on experience to teach all aspects of Auto Collision from safety of hand and power tools, to various body filler, different metal working techniques, and panel replacement. Also, single stage and multi-stage paint systems. NATEF/ASE certifications available.

Automotive Technology (Houlton -All day every other day): This is a program covering the following areas: shop safety, operating principles of a vehicle, use and care of automotive tools and equipment, shop maintenance, basic welding and soldering, engine tune-up and overhaul, rear axles, brakes, carburetion, fuel injection systems, electrical components, basic electronics, suspension, wheel alignment, heating and cooling systems. NATEF/ASE certifications available.

Culinary Arts (Houlton -All day every other day): Culinary Arts is a course to orient the student toward food preparation procedure and the use of equipment as it applies to the finished product. This will include study and practical application in baking, main meal production, short order cooking, sanitation, safety, hygiene, and menu planning on a daily basis. Each student will be involved in planning, coordinating, and catering functions and parties for small and large groups throughout the year. Students will gain entry level work skills and hands-on experience participating in the Culinary Arts restaurant. ACF/ServSafe certifications available.

Emergency Medical Technician (Houlton - All day white days): The EMT program provides students with necessary skills to respond to emergency calls, provide efficient and immediate care to critically injured persons, and to transport patients to a medical facility. Students receive instruction in anatomy and physiology and patient assessment. Students who successfully complete the program will be eligible to take the National Registry Exam for EMTs. This level of EMT training/certification will allow students to be immediately employable with most ambulance carriers upon reaching the age of 18. Also, students will be able to earn their OSHA card.

Early Childhood Education (Houlton - All day every other day): The primary goal of the Early Childhood Education program is to provide students with the knowledge and experiences that will prepare them for a variety of early childhood opportunities. Students will study growth and development of children from birth to middle childhood, experience hands-on activities and learn systematic approaches to the everyday care and guidance of young children. This clinical based program prepares students to go on to entry level positions and to continue their education in early childhood or other related fields.

Early Childhood Education II provides students with a more in-depth study of child development and career opportunities. Individual projects are created based on student's interests, skills and availability of site placement.

Maine Roads to Quality/NAEYC certifications available.

Due to age requirements, this program is available to seniors only.
Forest Management & Operations
(Southern Aroostook High School All day every other day): This program teaches students the entry level skills needed to work as a professional logger. Region Two harvests wood on a lot made available by Irving Woodlands. Safety practices such as proper personal protective equipment and saw maintenance, tree felling, and machine operation of skidders, processors, and forwarders are among subjects covered. Best management practices are part of the curriculum. Upon completion of the program, graduates could receive their Apprenticeship through the Certified Logging Program and also receive college credits through UMFK. CLP certification available.

Health Science (Houlton-All day every other day): This program is geared toward the completion of a CNA certificate. The class time is based on state requirements and does not follow the standard schedule during the clinical portion of the class. It is critical that any student entering this program understands the attendance requirement and the additional time required. This is a full year program split between Health Science and Medical Terminology.

Intro to Medical Professions (Houlton-All day white days): Preferably, students in this program will have completed the Health Science program and listed on the State CNA registry. Students may earn college credits for Medical Terminology, receive certification as a Phlebotomy Tech, and intern in a physician's office at Houlton Regional Hospital learning fields such as Medical Assisting, Medical Coding, Medical Lab Assistants, and Medical Administrative Specialists.

Law Enforcement (Houlton- All day every other day): This program provides students with the opportunities to prepare for employment in occupations related to the law enforcement industry. Students will receive instruction in Defensive Tactics, Criminal Investigations, Domestic Violence, Use of Force, Low-Risk & High Risk Vehicle Stops, Crash Investigations, OUI Investigations, Handcuffing, Report Writing, First Aid/CPR Certification, Handgun Safety, etc. Physical Fitness training is also an important component of the program. Cyber Security certification available. The Law Enforcement Program sets high standards and expectations with emphasis on Professionalism, Discipline, Respect, Ethics, Integrity and Team Work.

Mechanical Services Technician (Houlton -All day white days): The objective of the Mechanical Services Technician program is to introduce students to the duties and responsibilities of a Plumbing, Heating, and Air Conditioning Technician. Students will be learning the basics of each trade. Students will learn how to work with the tools of the trade, gain knowledge of fittings and supplies used in each component, hands on lab work with various types of equipment, and classroom instruction time devoted to technical aspects of each trade. Possible live work opportunities will be available in regards to different types of installations and exposure to the types of environments students could expect to be working in. The program will focus on using a nationally recognized curriculum provided by Associated Builders and Contractors (ABC of Maine).
Residential Electrical (Houlton- All day every other day): This course covers basic electrical trades terminology and develops technical aspects of electrical trades with emphasis on development of introductory skills such as residential wiring, electrical installation, and service. Topics include basic electricity, electrical construction codes and practices, the National Electrical Code, the use of test equipment, and electrical hand and power tools. English language arts, mathematics, and science are reinforced. This course helps prepare students for National Center for Construction Education and Research (NCCER) certification. SkillsUSA competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.

Welding/Metal Fabrication (Houlton - All day every other day): Beginning weeks are devoted to basic skills: Oxy-acetylene Welding, Arc Welding, Basic Design Blueprint Reading, etc. The second half is devoted to practical experience and a few advanced skills, i.e., Individual projects, Heliarc, Mig Welding, and sheet metal pattern development. There will be opportunity for individual projects within the school year. Students may elect to try for their certification, or contract for jobs. NCCER/AWS certifications available.

Additional Opportunities Offered at Region Two

The Bridge Year Program: This program presents an opportunity to assist high school students in (1) obtaining additional career assessment, exploration, and advisement while in high school; (2) obtain an integrated technical skill-based education that ties academics to real work careers through integrated CTE based labs; (3) obtain approximately 30 college credits by high school graduation from The University of Maine by taking college level courses that are taught at the high school by high school instructors approved by the college; (4) complete an Associate's Degree in Applied Science within 12 months following high school graduation; (5) transfer credits to many other schools as well into programs of your choosing; (6) options for students to earn a Bachelor's Degree at a University. The cost of the concurrent enrollment will be minimal to you offering a significant savings.

National Technical Honor Society (NTHS): Brings national recognition and scholarship opportunities to Career and Technical Education students. NTHS affiliation encourages family and community involvement in the educational process. The purpose of NTHS is to honor students’ achievements and leadership in career and technical education, promote educational excellence, award scholarships, and enhance career opportunities for the NTHS membership.

SkillsUSA: Students have the opportunity to participate in several SkillsUSA activities including: attendance at the SkillsUSA Leadership Training, participation in the SkillsUSA Maine State Championships in Bangor, and National Championships in Louisville, Kentucky.
DESCRIPTION OF COURSES
BY DEPARTMENT
ENGLISH

The English classes offered at Houlton High School focus on close, critical reading, vocabulary recognition and acquisition, and college and career ready writing skills. The difficulty of a variety of fiction and nonfiction selections increases each year and writing assignments become more challenging. Each year, students have the opportunity to choose a class that best meets their learning needs in terms of pace and presentation. The sequence of classes provides opportunities for students to demonstrate proficiency in all of the graduation standards during their four years of study.

The Honors English program is designed for students who have demonstrated a commitment to maintaining high academic standards, while remaining on teacher pace. This program will cover all of the standards found in the CP program at an accelerated pace, expanding upon the topics taught. This program may include additional topics, projects, and assignments not found in the CP program. Participation in the honors program is contingent upon meeting all teacher expectations for each honors course.

Successful completion of the student’s most recent ELA/English course with a 90 average is recommended.

Graduation Standards

1. **READING**
   Read and comprehend complex literary and informational texts independently and proficiently.

2. **READING**
   Interpret, analyze, and evaluate complex literary and informational texts.

3. **WRITING**
   Produce clear and coherent writing for a range of tasks, purposes, and audiences.

4. **WRITING**
   Conduct short and sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.

5. **SPEAKING AND LISTENING**
   Initiate and participate effectively in a range of discussions, responding thoughtfully to diverse perspectives and expressing ideas clearly and persuasively.

6. **SPEAKING AND LISTENING**
   Present information, findings, and supporting evidence conveying a clear and distinct perspective.

7. **LANGUAGE**
   Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
CP English 9 (1 credit) * NCAA approved
CP English 9 is intended for students who wish to develop the literary skills necessary for success at post-secondary institutions. The course is primarily devoted to close reading, literary analysis, writing, and vocabulary acquisition. Reading grade-level texts requires the continued development of complex reading strategies, which ultimately guides students toward becoming independent readers, writers, and thinkers. Vocabulary work, grammar study, and a variety of writings are required throughout. The Accelerated Reader Program is a required component that enables students to practice and enhance their independent reading skills.

Prerequisite
None

Eligibility
Grade 9

English 9 (1 credit)
Concepts and applications of literary analysis and composition are introduced through close reading, whole class and/or small group discussions, and various writing assignments. In addition, emphasis is placed on vocabulary development, reading comprehension, and the development and application of writing and language skills. A major objective of this course is to cultivate independence in the habits of mind that will lead to the successful completion of graduation standards and will enable students to meet their post-secondary career and/or college goals.

Prerequisites
Individual testing and recommendation of ELA teacher

Eligibility
Grade 9

Honors English 10 (1 credit) * NCAA approved
The 10th grade Honors English is part of a carefully structured and highly demanding four year course of English study that is intended to prepare students for acceptance in and success in a four year college program. The course is intended to develop students’ independent ability to read analytically. Longer reading assignments, daily vocabulary study, and grammatical concepts are expected. Quarterly independent study reading and writing projects are required beyond daily classroom work. Students who choose to challenge themselves with this class will be required to complete summer reading and/or assignments that will be assessed as part of the first quarter grade.

Prerequisites
Successful completion of Honors English 9 or successful completion of CP English 9 with a 90 average is recommended.

Eligibility
Grade 10

CP English 10 (1 credit) * NCAA approved
CP English 10 is intended for students who wish to develop the literary skills necessary for success at post-secondary institutions. The course is primarily devoted to reading, analysis, writing, and vocabulary acquisition. Reading grade-level texts requires the continued development of complex reading strategies, which guides students toward ultimately becoming independent readers, writers, and thinkers. Vocabulary work, grammar study, and a variety of writings are required throughout.

Prerequisites
Successful completion of 9th grade English

Eligibility
Grade 10
Conducts and applications of literary analysis and composition are introduced through close reading, whole class and/or small group discussions, and various writing assignments. In addition, emphasis is placed on vocabulary development, reading comprehension, and the development and application of writing and language skills. A major objective of this course is to cultivate independence in the habits of mind that will lead to the successful completion of graduation standards and will enable students to meet their post-secondary career and/or college goals.

**Prerequisites**
Successful completion of English 9 and teacher recommendation

**Eligibility**
Grade 10

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**CP English 11 (1 credit) *NCAA approved***
CP English 11 is designed to meet the needs of students who are planning to attend institutions of higher learning. The course is primarily devoted to reading, analysis, writing, and vocabulary acquisition. The literature studied in the course mainly focuses on works created by American writers.

**Prerequisites**
Successful completion of CP English 10 or teacher recommendation

**Eligibility**
Grade 11

**AP English Language and Composition 11 (1 credit)**
The AP English Language and Composition course uses nonfiction texts as the main vehicle to study language and rhetoric. The rigors of the course are intended to be commensurate with introductory college-level rhetoric and composition courses. Students are trained to be excellent critical thinkers, readers, analysts of language, effective writers, and creative, cogent producers of argument. Students focus on the writing skills needed to be successful in the course, on the AP Language test in May, and in their later college work. Students write effectively for a range of audiences and a variety of purposes, demonstrate mastery of the conventions of standard written language, and use the steps of the writing process as needed.

* Students practice multiple choice by reading difficult essays and answering questions about them.
* Students learn about rhetoric, rhetorical devices and terms, and how to analyze a piece in terms of its rhetoric for their first essay.
* Students learn how to read an argumentative essay and then use those techniques to practice writing arguments.
* Students will learn how to analyze documents and synthesize that information into an argument
* The class can also include fiction and other genres, as decided by the department of or district.
* It is a rigorous and challenging course with a good amount of writing.

**Prerequisites**
Honors English 10 or successful completion of CP English 10 with
English 11 (1 credit)
Concepts and applications of literary analysis and composition are reinforced through close reading, whole class and/or small group discussions, and various writing assignments. In addition, emphasis is placed on vocabulary development, reading comprehension, and the development and application of writing and language skills. A major objective of this course is to emphasize independence in the habits of mind that will lead to the successful completion of graduation standards and will enable students to meet their post-secondary career and/or college goals.

Prerequisites
Successful completion of English 10
Eligibility
Grade 11

AP English 12 (1 credit) *NCAA approved
Senior AP English is a natural progression for students who have completed several years of English honors classes. The course consists of extensive study of literature, writing, and the nature of language. It is intended to prepare students for advanced work in a four-year college and for the Advanced Placement Test in English. Primary emphasis is on analytical reading and extensive independent study in order to encourage problem solving and critical thinking skills.

Prerequisites
Honors English 11 or successful completion of CP English 11 with a 90 average is recommended
Eligibility
Grade 12

CP English 12 (1 credit) *NCAA approved

CP English 12 is intended for students who wish to further develop the literary skills necessary for success at post-secondary institutions. The course is primarily devoted to reading, analysis, writing, and vocabulary acquisition. Grade-level texts require the continued development of complex reading strategies. The overall goal of the college preparatory classes is for students to become independent readers, writers, and thinkers.

Prerequisites
Successful completion of CP English 11 or teacher recommendation
Eligibility
Grade 12

English 12 (1 credit)
Concepts and applications of literary analysis and composition are reinforced through close reading, whole class and/or small group discussions, and various writing assignments. In addition, emphasis is placed on vocabulary development, reading comprehension, and the development and application of writing and language skills. A major objective of this course is to emphasize independence in the habits of mind that will lead to the successful completion of graduation standards and will enable students to meet their post-secondary career and/or college goals.

Prerequisites
Successful completion of English 11
Eligibility
Grade 12

Yearbook (1 credit)
Students in this year long-course are responsible for the design and publication of the high school yearbook. Students should have a background or interest in one of the following areas: photography, desktop publishing, art/design or written language. Students will learn to use computers to produce the book and are expected to be responsible and self-motivated. Students must produce quality work, work collaboratively, and be able to handle deadline pressure. Students should expect to spend additional time outside of the class working on advertising and publication.

Prerequisites
Teacher Permission
Eligibility
Grade 12
Creative Writing – ½ credit each semester
Creative Writing is a class targeted at students who are willing to explore different genres of writing. Students in the class are expected to actively participate in class discussions, openly share their work, and receive constructive feedback from the other students.

Prerequisite
Completion of CP English 11 or permission of the teacher

Social Justice 101 (1 credit)
This class exists to increase student understanding of the dangers of intolerance, hate, and extremism. This class aims to increase student understanding of, and empathy for, the plight of all those in the past and present experiencing injustice. The class will increase student commitment to civic engagement and create an appreciation of human differences and similarities. Students will hear stories told in text and video documentary describing events in our history in which intolerance arose from the fear and suspicion and anger of ordinary people. Students will be brought face-to-face with the negative and often tragic consequences of prejudice and hate along with the hope and heroism that true moral conviction inspires. This class challenge students to examine their own lives. How far have we come toward achieving full equality, and how far do we have yet to go?

Eligibility
Grades 9 - 12

SOCIAL STUDIES

The primary purpose of social studies is to help young people make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world. Its objectives are the following: a) enhance the rigor of the social studies disciplines; b) build critical thinking, problem solving, and participatory skills to become engaged citizens; and c) gain a historical perspective of the significant individuals and events that have influenced the world we live in.

Graduation Standards:

A. Applications of Social Studies processes, knowledge, and skills
   Students will research, present, and defend positions on social studies issues by developing and modifying research questions, and analyzing, evaluating, and synthesizing information from multiple and varied resources.

B. Civics and Government
   Students understand the ideals, foundations, principles, and structures of constitutional government in the American political system, as well as other forms of government and political systems in the world, applying this knowledge to the role of citizens locally and globally.

C. Economics
   Students understand the principles and processes of personal economics, the role of markets, the economic system of Maine, the US, other economic systems in the world and how economics serves to inform decisions in the past, present, and future.

D. Geography
   Students analyze the physical, environmental, and cultural geography of Maine, the U.S. and various regions of the world to evaluate the effect of geographic influences on decisions on the past, present and the future.

E. History
   Students understand major eras, major enduring themes, and historic influences to develop historical perspective and understand issues of continuity and change in Maine, the U.S. and world.
**Freshman Social Studies Seminar:**
Freshman Social Studies will be a examination of many different topics of social studies, covering one each quarter. The purpose of this class is to introduce students to Social Studies and the all encompassing topic that it is. Topics may include Government, Global Studies, Economics, Geography, etc.

**Advanced Placement European History ** *NCAA approved*
AP European History is a college-level course designed to explore human history from 8000 B.C.E. to the present. We will emphasize the development of analytical and writing skills necessary for success on a collegiate level. To this end, the course devotes considerable time to the critical evaluation of primary and secondary sources, analysis of historiography (The principles, theories, or methodology of scholarly historical research and presentation) and inquiry into global connections that have shaped our present world. A special emphasis will be given to preparation for the National AP Exam, including historical writing through essay and document-based questions (DBQ) as well as objective evaluations.

**Prerequisite:**
CP Global Studies

**College Prep World History ** *NCAA approved*
This course is recommended for the 10th grade college preparatory student. It is designed as a chronological survey of world history from classical Greece and Rome to the middle of the 20th century. Each major period or development which has contributed to the formation of western civilization is examined, such as medieval Europe, the Renaissance and Reformation, the evolution of the modern nation-state, the age of exploration and discovery, industrialization, imperialism, economics, theories, modern wars, their causes and results, modern political theories and ideologies, and the international problems of the 20th century. Student evaluation is based on performance and written examinations, both objective and essay, map exercises, interpretation of written materials from primary sources, and class discussion.

**World History**
This course is recommended for all general 10th grade students. It is designed as a chronological survey of world history from classical Greece and Rome to the middle of the 20th century. Each major period or development which has contributed to the formation of western civilization is examined, such as medieval Europe, the Renaissance and Reformation, the evolution of the modern nation-state, the age of exploration and discovery, industrialization, imperialism, economics, theories, modern wars, their causes and results, modern political theories and ideologies, and the international problems of the 20th century. Student evaluation is based on performance and written examinations, both objective and essay, map exercises, interpretation of written materials from primary sources, and class discussion.

**Advanced Placement United States History (dual enrollment)** *NCAA approved*
The AP United States History course is a college-level class that provides an opportunity to gain skills colleges recognize. Students will explore events of U.S. history through the use and analysis of documents, images, cartoons, quantitative data, and other primary sources. They will also develop an understanding of major themes in U.S. history, including
American identity, economic and social life, political change and continuity, and the U.S. role in the world. A special emphasis will be given to preparation for the National AP Exam, including historical writing through essay and document-based questions (DBQ) as well as objective evaluations.

**Prerequisites:**
Global Studies
CP World History or AP European History

**CP United States History (dual enrollment)** *NCAA approved*
CP U.S. History is designed to meet the needs of those students who plan to attend post-secondary schools, as well as developing a comprehensive background for becoming a knowledgeable active citizen. This course is taught in sequential units, starting with the results of the Revolutionary War and continuing through to the 1980’s. Lectures and class discussion are the basic teaching formats. Student evaluation is achieved by unit tests, both objective and essay, projects and presentations, and a required research paper. This course is primarily designed as a background preparation for acceptance in post-secondary schools and students should have average or above average reading comprehension ability to achieve in this in-depth course of study.

**Prerequisites**
Completion of grade 10
United States History
U.S. History is designed to meet the needs of those students who may not plan to continue their education in a four-year college program. The course is taught in sequential units starting with the Revolutionary period and continuing to the 1980’s. The text is supplemented with worksheets, map exercises, and multi-media presentations. The objectives of the course are to provide students with a basic understanding of the growth of their country’s political, social and economic institutions in order for them to become active citizens. Students are assessed using essays, projects, presentations, and end of unit tests.

Prerequisites
Completion of grade 10

CP United States Government (dual enrollment) NCAA approved
This course is designed for college bound students to learn more about how the government and political system works. We closely examine the Constitution, the three branches of government, civil rights and civil liberties, political participation, political parties, elections and campaigns, and federalism. The course is reading and writing intensive. Students who pass the course have the option of getting college credit through the University of Maine at Fort Kent. Upon completion of the course, students will be able to understand of the environment of the American political system by examining the political ideologies and theories of democracy that influenced the construction of our system of government. They will also be able to describe the links between citizens and government. In this, they should articulate key concepts about voting, political parties, campaigns, and other forms of political participation, as well as understand practices and processes that describe how governmental institutions work and interact to create domestic and foreign policy.

Eligibility
Grades 11 & 12

History Seminar NCAA approved
This series of History Seminar courses will be broken up into ½ year sections. The classes will be thematic and student based. Seminars have different topics but share common goals, which are to provide a unique opportunity for sophomores, juniors, and seniors to enhance their research, writing and speaking skills through topics of their choice. Topics will be chose in combination with student input and teacher specialties.

MATH
The high school math curriculum is designed with two purposes in mind. The first is to provide students with the opportunity to learn the concepts and develop the skills necessary to show proficiency on the established RSU 29 graduation standards. The second is to provide students with the foundation necessary to pursue post-secondary education.

Students will meet all graduation standards and be expected to skillfully use them. In addition, students will use tabular, graphical, analytical and numerical problem solving strategies to arrive at solutions.

Honors Program
The honors math program is designed for students who have demonstrated a commitment to maintaining a high academic standard while remaining on teacher pace, who may pursue math-centric programs in college. This program will cover all of the material found in the CP program at an accelerated pace, expanding upon the topics taught. This program may include additional topics, projects, and assignments not found in the CP program. Participation in the honors program is contingent upon meeting all teacher expectations for each course.
Math Graduation Standards

Number and Quantity
   1. Reason and model quantitatively, using units and number systems to solve problems.

Algebra:
   1. Interpret, represent, create, and solve algebraic expressions.

Functions:
   1. Interpret, analyze, construct, and solve linear, quadratic, and trigonometric functions.

Geometry:
   1. Understand and apply geometric concepts and theorems to solve problems.

Semester courses increase the number of class choices which gives students the flexibility to tailor their 4th year of mathematics to better suit the needs of their future goals.

- Statistics is the most widely required college "General Education" Math requirement. Applied statistics will prepare students for their college level class (Either community college or a 4-year university) as well as use relevant material that is useful in real life.

- Applied Math for Trades will provide material that will directly relate to math courses taken at a community college as well as provide relevant tools for going directly to work in the trades. By having 2 levels of this course, we will be able to meet the needs of a larger portion of our students.

- Intro to Trigonometry will provide a rigorous CP level class preparing students for College Algebra. This will meet the needs of students who plan to attend a 4-year university but are not on the honors level/calculus track.

- Computer Science is currently one of the fastest growing industries and technology is present in nearly every aspect of modern day life. Mathematics for Technology will provide skills relevant for students interested in a career on the computer science/technology path, as well as useful tools for students interested in math that is happening behind the scenes.
**General Level: Applied Math for the Trades:** Applied Math for the Trades provides practical mathematics skills that are used in a variety of trade, technical, and other occupational areas. Areas of study include: Ratios and Proportions, Measurement and Unit Conversion, Solving Formulas and Practical Plane Geometry. This course is designed to prepare students for an entry level community college mathematics courses and to develop the skills necessary for work in various trades.

**Prerequisite:** General Alg. II

**General Level: Applied Statistics:** Applied Statistics is an introduction to statistics, with an emphasis placed on statistical reasoning and data analysis. Topics include: Measures and Center of Spread, Distribution of Data and Comparing Data. Data calculations will be focused on examples of how statistics are applied in various trades and real life scenarios. Semester includes a Community/Student Interest project.

**Prerequisite:** General Alg. II

**CP Applied Math for the Trades:** CP Applied Math for the Trades provides practical mathematics skills that are used in a variety of trade, technical, and other occupational areas at a College Prep skill level. Topics of Study include: Ratios and Proportions, Accuracy and Precision, Measurements and Unit Conversion, Practical Plane Geometry. Material will be covered faster and more in depth than Applied Math for Trades. This course is designed to prepare students for community college mathematics courses and to develop the skills necessary for work in various trades.

**Prerequisite:** CP Alg. II

**CP Intro to Statistics:** An introduction to statistics, with an emphasis placed on statistical reasoning and data analysis. Data calculations will be focused on examples of real-life scenarios and will provide an introduction to the skills needed for a college-level statistics course. Topics will include: Collecting and Interpreting data, Charts and Graphs, Measure of center and Distribution of Spread. Semester includes a Community/Student Interest project.

**Prerequisite:** CP Alg. II

**CP Intro to Trigonometry:** An introduction to Trigonometry and Matrix Operations with an emphasis on practical applications. Topics will include Matrix Operations and Inverses, Angle and Radian Measures, Unit Circle Development and Graphing Trigonometric functions. This class is designed to prepare students for College Algebra.

**Prerequisite:** CP Alg. II

**CP Mathematics for Technology:** This is a course in mathematical foundations designed to provide an introduction to applications in problem solving and modeling used in technology, computer science, digital arts, gaming etc. Topics will include: Binary Number base, Conversion between number bases, Modular Arithmetic, Graphing functions and Kinematics., and 3D printing.

**Prerequisite:** CP Alg. II

Each course is 1 semester in length and 1/2 credit
Algebra I (1 credit)
In Algebra I, students learn foundational algebraic concepts. Algebra I covers a range of topics including linear equations, second degree equations, graphing, polynomials, and factoring. This course will focus on basic algebraic skills. The pace and complexity of the material for this course are more closely tailored to meet the unique needs of learners in pursuit of proficiency of the graduation standards.

Prerequisites
Grade 8 math

Eligibility
Based on instructor recommendation. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

CP Algebra I with Lab NCAA Approved
This course is designed to give the student a concentrated experience in Algebraic concepts including relations and functions and first and second degree equations. This class meets every day to support students who meet criteria for college preparatory pace. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

CP Algebra I (1 credit) NCAA Approved
In CP Algebra I, students learn algebraic concepts needed for success in college and technical school. CP Algebra I covers a wide range of topics including linear equations, second degree equations, graphing, polynomials, and factoring. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

Prerequisites
8th grade math

Honors Algebra I (1 credit) NCAA Approved
The Honors Algebra I course covers the same topics as the CP Algebra I course but at a faster pace. In Honors Algebra I, students learn algebraic concepts needed for math-centric college programs. Honors Algebra I covers a wide range of topics including linear equations, second degree equations, graphing, polynomials, and factoring. This course will focus on increased algebraic rigor and student independence. Eligibility is based on instructor recommendation. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

Prerequisites
Grade 8 math

CP Geometry (1 credit) NCAA Approved
The CP Geometry course is a survey of plane Euclidean geometry topics including points, lines, and planes, perimeter and area, parallel lines and transversals, congruence and similarity, the Pythagorean theorem, right triangle trigonometry, properties of special quadrilaterals, and properties of circles. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

Prerequisite
CP Algebra I

Geometry (1 credit)
This course covers the same topics as the CP Geometry course. The pace and complexity of the material for this course are more closely tailored to meet the unique needs of learners in pursuit of proficiency of the graduation standards. Prerequisites
Algebra I
**Honors Geometry (1 credit) NCAA Approved**
The Honors Geometry course covers the same topics as the CP Geometry course but at a faster pace and with a focus on deductive reasoning and proof. This course is designed for the student who may pursue a math-centric post-secondary program of study. Eligibility is based on instructor recommendation. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

**Prerequisites**
Honors Algebra I

**Algebra II (1 credit)**
Course Description: Algebra II supports and extends upon the topics taught in Algebra I and Geometry. In this class students will expand their knowledge and understanding of topics including trigonometry, functions, quadratic equations, and systems of linear equations. The pace and complexity of the material for this course are more closely tailored to meet the unique needs of learners in pursuit of proficiency at the graduation standards. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

**Prerequisites**
Algebra I/Geometry

**Eligibility**
Grades 10-12

**CP Algebra II (1 credit) NCAA Approved**
The first semester of CP Algebra II is a thorough exploration of quadratic expressions and equations including finding roots, factoring, completing the square, using the quadratic formula, graphing by hand, and graphing by calculator. The second semester explores the behavior of various functions (absolute value, quadratic, cubic, square root) under various transformations. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

**Prerequisites**
CP Algebra I & CP Geometry

**Honors Algebra II (1 credit) NCAA Approved**
This course is designed for the student who may pursue a math-centric post-secondary program of study. Students in this class will explore all the topics that are covered in CP Algebra II but at a faster pace and in a greater depth and breadth. In addition to these topics, students will explore additional concepts not typically covered in CP Algebra II. Eligibility is based on instructor recommendation. Students are expected to demonstrate proficiency of the graduation standards designated for this course.

**Prerequisites**
CP Algebra I & CP Geometry

**Trigonometry/Advanced Mathematics NCAA Approved**
Course Description: The first semester of this course involves a thorough investigation of trigonometry including right triangle trigonometry, radian measure, the unit circle, and trigonometric functions of any angle, graphs of trigonometric functions and their transformations, laws of sines and cosines, and verification of trigonometric identities. The second semester is devoted to pre-calculus topics such as relations and functions, composition of functions, graphs of functions and their transformations, inverse functions, polynomial functions, exponential functions, and logarithmic functions.

**Prerequisites**
CP Geometry & CP Algebra II
Senior Math TBA

**CP Calculus (1 credit) * NCAA Approved**
This is an elective intended to give students an introduction to elementary calculus. Emphasis is placed on methods and applications rather than theory. Topics included are functions, limits and continuity, derivatives, applications of the derivative, integration, and the differential with applications, logarithmic and exponential functions.

**Prerequisites**
Trigonometry/Advanced Math

**AP Calculus (1 credit) NCAA Approved**
Advanced calculus for preparation for the AP Calculus AB test. Topics include functions, limits and continuity, differentiation, application of differential calculus, definite integral and its applications, differential equations and mathematical modeling. Upon completion, students take the AP exam
The high school science curriculum is designed to enable students to become scientifically literate in both life and physical sciences. As such, students in all courses will be expected to use explanatory writing and critical reading skills. In all courses students are taught to understand and utilize scientific methods as experimental tools and problem solving strategies.

The life science curriculum is directed towards deepening students understanding the characteristics of living things. Topics covered include cellular structures, cellular functions, and cellular reproduction. Additionally, the role of photosynthesis and respiration in providing energy to organisms and the central dogma of biology are covered.

The physical sciences course introduces the classic concepts of conservation of matter and energy, fundamentals of atomic structure, Newton’s laws, and the use of mathematics to predict and interpret motion.

Please refer to the Pathways chart on page 11.

High School Science Graduation Standards

1. General Sciences:
   a. Understands the scientific method
   b. Is able to design and conduct an experiment

2. Life Sciences
   a. Understands the basic characteristics of living and nonliving things
   b. Understands the functions of organelles in plant and animal cells
   c. Understands how organisms use photosynthesis and cellular respiration to transfer energy
   d. Understands how cells repeatedly divide to make more cells for growth and repair
   e. Understands that specific gene mutations in a cell can result in cancer
   f. Understands how genes are expressed through transcription and translation

3. Physical Science:
   a. Understands how to use speed to predict distance traveled
   b. Understands how to use graphs to interpret motion
   c. Understands the relationship between force, mass, and acceleration (Newton’s Laws)
   d. Understands the structure of an atom in terms of neutrons, protons, and electrons
   e. Understands that matter cannot be created or destroyed
   f. Understands how energy can be released or stored through chemical reactions.
**Possible pathways within the Science Curriculum**

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<th>CP or General Algebra II as Juniors</th>
<th>CP or Honors Algebra II as Sophomores (scores of proficient or advanced)</th>
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<tr>
<td>Freshmen</td>
<td>Intro Comp Sci/Earth Sci</td>
<td>Honors Biology</td>
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<td>Sophomore</td>
<td>CP Biology</td>
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<td>Junior</td>
<td>CP Intro Phys/Chem**</td>
<td>CP Chemistry (planning on 4 year college degree)</td>
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<td>CP Computer Science Principles</td>
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<td>(struggles in math, planning on 2 year degree, technical school, workplace)</td>
<td>CP Physics**</td>
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<td>Human Anatomy &amp; Physiology</td>
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<td>CP Chemistry</td>
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<td>Senior</td>
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<td>Principle of Modern Molecular Genetics</td>
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<td></td>
<td>CP Computer Science Principles*</td>
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*APAvailable
**must be taken junior OR senior year

**Environmental Science (1 credit) NCAA approved**

This course is a laboratory science class that encourages students to understand natural and man-made environments and to analyze the environmental problems that the world is facing. Content will include environmental relationships, ecosystems, the atmosphere and weather, water systems, Earth’s energy resources, and human impact.

**Prerequisites**
None

**Eligibility**
Grades 11 & 12

**Earth Science/Exploring Computer Science (.5 credit per semester)**

Designed for Grade 9 students. In the first semester of this course, students are introduced to Earth Processes through investigation, observation, and explanation utilizing resources available through text, online resources, and lab experiences. Students will learn lab techniques applicable to all sciences, as well as determine the interactions of the Earth’s processes in other science disciplines, aligning with NextGen Science Standards. The second semester of this course allows students to explore Computer Science through “unplugged” activities. Students work to understand the correlation between their online presence and the world in which we live.

**Eligibility**
Grades 9 & 10

**CP Biology (1 Credit) NCAA Approved**

This is a required course with a lab component for all students. The goal of this course is to have students become scientifically literate in the science of life. Using a variety of tools including class discussions, online resources, demonstrations, group activities and laboratory experiences the fundamental concepts of biology will be made accessible and engaging to all students. This course covers graduation standards in both general sciences and life sciences (see above). Additionally, learning strategies and skills are embedded into course work in an effort to prepare students for college or career readiness.

**Prerequisites**
None

**Eligibility**
Grades 10 or teacher recommendation for Grade 9
**Honors Biology**
Honors Biology is designed for freshman and sophomore students with an ambition to continue studies in the life sciences. This course will move at a faster pace than CP Biology and cover a wider range of life science related topics. Honors Biology will examine biological concepts from a molecular, cellular, and organismal level. There will be an integrated lab portion to the course and it will fulfill the requirements of life science graduation standards. Additionally, honors biology will expose to students to topics such as sexual reproduction, evolution, and species interactions. Students will develop skills including college readiness, writing to communicate scientific information, and life science lab techniques.

**Prerequisites**
Teacher recommendation

**Eligibility**
Grade 9 and 10

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**Introduction to Physics/Chemistry/lab (1 credit) NCAA Approved**
This is a hands-on course designed to give college bound students the basic lab skills and knowledge necessary to succeed in future science courses. This course will explore motion, wave, and electrical phenomena to explain everyday occurrences and technology. The board topics covered in this course include the following: motion of objects, sound and light behavior, electricity and magnetism.

**Prerequisites**
Biology, Algebra I or CP Algebra I preferred

**Eligibility**
Grades 10-12

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**CP Chemistry NCAA Approved**
CP Chemistry is a college prep class for all students. The student will work both independently and collaboratively on specific assignments and labs. In order for students to be successful in CP Chemistry, students must complete non-graded practices and homework in a timely manner. CP chemistry is concerned with the chemical properties of substances. Topics include: properties of matter; atomic theory, electron clouds and probability, periodic trends, chemical formulas, chemical reactions, chemical bonding kinetic theory, the gas laws, properties of solutions, reaction rates, acids and bases, oxidation-reduction and entropy. Formal laboratory notebooks and typed abstracts are required along with comprehensive project-based first and third quarter assessments. Students will be provided with links to classroom documents, keys, and resource materials.

**Prerequisites**
Successful completion of Biology, enrolled in Algebra II/Trig or higher, or teacher recommendation. Graduation: Fulfills physical science requirement College Prep: Fulfills lab science requirement

**Eligibility**
Grades 10-12

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**Health I (1/2 credit)**
Health education gives students the knowledge and skills to thrive physically, mentally, emotionally and socially. It contributes to students’ ability to successfully practice behaviors that protect and promote health, and avoid and reduce health risks. Health education helps students to determine personal values and group norms that support healthy behaviors. Through comprehensive health education, students learn basic health concepts and influences on health. They develop the skills required to adopt, practice, and maintain health-enhancing and safe behaviors. These skills include: analyzing the reliability and validity of media and health resources; communicating effectively using refusal and conflict management skills; setting goals; and making healthy decisions. Health education helps students to be better consumers of information, manage stress, and make health decisions in the face of conflicting messages. It assists them in living healthier lives.

**Prerequisites**
None

**Eligibility**
Grades 9-12
Health II (1/2 credit)
Continuation of Health issues.

**Prerequisites**
Pass Health I

**Eligibility**
Grades 10-12

**Women’s Health**
This course explores current issues related to women’s health and wellness with an emphasis upon prevention of disease and optimum well-being. Students will examine topics including the following: female sexual health and reproduction, exercise and eating behaviors, substance abuse, mental health and stress and violence against women. This course is designed to support students in their personal exploration of attitudes, knowledge and values related to women’s health and to assist them as they analyze their personal health behaviors.

**Eligibility**
Grades 11-12

**CP Physics/lab (1 credit) * NCAA Approved**
Course Description: An operational philosophy in teaching physical phenomena is generally employed in this course and therefore only if a physical quantity, can in principle, be measured, and is it pursued. An overview of contents of the course is shown below. Extensive labs are assigned periodically, during which the students will collaborate, problem solve, and use computer applications to communicate meaningful results. One of the goals of this course is to develop a philosophy of the interaction of man and nature and how they affect our culture. The aid of sensor probes and interfacing devices, attached to computers, provide the technical skills the students will need to explore their goals and become part of their culture. Content includes the following: measurement, mechanics, vibration and waves, thermodynamics, electricity and magnetism, light and optics and modern physics.

**Prerequisites**
Algebra I, Geometry, and Algebra II

**Eligibility**
Grades 11-12

**Human Anatomy and Physiology (1 credit) * NCAA Approved**
This course is the study of the structures and functions of the human body. Students interested in science or health occupations, or those who have a strong academic interest in the human body, would benefit from this course. A background in chemistry is desirable but not necessary. The lab portion of this course includes dissection of various preserved organs from pigs, sheep, and/or cows.

**Prerequisites**
College Biology, Chemistry recommended

**Eligibility**
Grades 11-12

**AP (Physics) (1 credit) * NCAA Approved**
This course is open to students who have completed CP Physics. Topics covered are the following: mechanics, thermal physics, electricity and magnetism, waves, optics and atomic and nuclear physics. Upon completion, students take the AP Physics B exam.

**Prerequisites**
CP Physics

**Eligibility**
Grades 11-12
Forensic Science  
*NCAA Approved*

Forensic Science is a lab based investigative course for all students. This is a course rich in exploration which applies many disciplines of scientific study such as biology, chemistry, and physics to solving crimes. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions. The course teaches students the how and why of evidence collection. Forensic science is important in many careers from the legal system to the medical field. Our Forensic Science course focuses on three main strands: the inquiry process, the history and nature of science, and science in personal and societal perspectives.

Graduation: Fulfills lab science requirement

**Prerequisites**
Successful completion of Biology

**Eligibility**
Grades 10-12

Principles of Modern Molecular Genetics with Lab  
*NCAA Approved*

2 semester course. This course will investigate the fundamental principles of molecular genetics using classic scientific reports, critical scientific review articles, and lab investigations. No text will be utilized: however, extensive reading and interpreting of historically important scientific articles (provided) will be expected of students. Lab investigations will include microscopy, electrophoresis, DNA isolation, chromatography, and phenotype analysis. Units to be covered will include the history of modern genetics (1859 - 2000), fundamentals of the nature and function of genetic material, fundamentals of gene expression, and manipulating and using genetics.

**Prerequisites**
Upper level senior course for those with an interest in life sciences over physical sciences. It could easily follow human anatomy and physiology for some and precede it for others.

**Eligibility**
Grades 12. Grade 11 with instructor permission.

Science Seminar

**Eligibility**
Grades 11 and 12

**Overview**

This is a rigorous lecture-based seminar course, supplemented by readings from scientific journals, as well as textbooks and encyclopedias where appropriate. Scientific reasoning will be the primary focus for this course, but independent research and investigations will also build scientific literacy, while learners desiring a more hands-on approach will have opportunities to supplement their learning with a variety of investigative projects. Much of this material will serve to broaden student understanding after completion of the standard biology, chemistry, and physics courses. As a seminar class, the workload should be quite manageable, and student interest will determine which subjects are explored beyond the first three introductory units. However, students uninterested in grappling with abstract concepts are advised to skip this seminar.

**Topic List**

Mathematical background

- Algebra, Functions, and Instantaneous Rates of Change
- Spreadsheets and Elementary Statistics
- Introduction to Frequentist and Bayesian reasoning
- Introduction to Factor Analysis
- The scientific method
- Prescientific thought

Development of scientific principles

- Pitfalls of post scientific thinking
• Experimental Design and Interpretation
• Standard protocol across fields
• Controversies across fields
• Optimization
• Logic
• Game Theory
• Psychology (Trait theory and measurement, cognitive-behavioral therapy, etc.)
• Sociology
• Anthropology (kinship, residence, subsistence patterns, etc.)

Modern Physics (relativity, quantum mechanics, and the standard model) Evolutionary Theory Chaos Theory Climatology (climate models, classification, and change)

WORLD LANGUAGES

The new world language standards encourage students to be at an intermediate level of proficiency. As such, students are encouraged to take three (3) consecutive years of a world language. Students applying to more competitive colleges should plan on extending content knowledge by completing four (4) years of consecutive study.

World Languages is becoming increasingly important in a global society. As such, students will be asked to demonstrate authentic communication skills in either French or Spanish. Course objectives are based on the American Council of Teaching of Foreign Language (ACTFL) standards and include: foundations, interpersonal communication, interpretive reading and listening, presentational speaking and writing, communities, and language and cultural comparisons.

Spanish I (1 credit) *NCAA Approved
This is an elementary course in listening, speaking, reading and writing level one Spanish. Classroom work involves conjugations of the three regular verbs and at least five irregular verbs in the present tense, telling time, colors, numbers, food, animals, likes and dislikes, etc. Handouts and worksheets are utilized to give students practice in hearing, understanding, speaking, reading, and writing elementary Spanish. Conversations are created to demonstrate the relationship of grammar structures, pronunciation, slang expressions, and rhythm, etc. Exposure to cultures that speak the target language is introduced daily. Upon successful completion of the course, students should be able to communicate at a novice-mid to novice-high level.

Prerequisites
None

Eligibility
Grades 9-12

Spanish II (1 credit) *NCAA Approved
This course is a continuation of Spanish I. A textbook and a workbook are used to give students practice in the four basic skills of second-language learning. Work of Level One Spanish is first reviewed and then practiced in more advanced grammatical structures. Oral reading and writing practice evolves from each lesson and Spanish cultural material enhances each unit. Upon completion of the course, most students will be able to communicate at an intermediate-low level.

Prerequisites
Spanish I

Eligibility
Grades 9-12
Spanish III (1 credit) *NCAA Approved
This course furthers the fundamental skills begun in Spanish I and Spanish II and places emphasis on further vocabulary acquisition to enhance more sophisticated conversation and reading comprehension skills. Aspects of the culture and the thinking of the Hispanic peoples are also presented including short stories, poetry, drama, essay, current journalistic writings, and traditional Spanish proverbs. Students in this course will be given the opportunity for self-expression, written and oral. Due to its challenging nature, a 3% premium will be placed on the final grade. Since individual progress varies at more advanced levels, students show greater ranges in proficiency; the course goal is to promote rigor that encourages students to achieve a level of intermediate-low or higher.

**Prerequisites** Completion of Spanish II **Eligibility**
Grades 10-12

French I (1 credit)*NCAA Approved
This is an elementary course in listening, speaking, and writing Level One French. Classroom work involves conjugations of the three regular verbs and at least five irregular verbs in the present tense, telling time, colors, numbers, food, animals, likes and dislikes, etc. Handouts and worksheets are utilized to give students practice in hearing, understanding, speaking, reading, and writing elementary French. Conversations are created to demonstrate the relationship of grammar structures, pronunciation, slang expressions, and rhythm, etc. Exposure to cultures that speak the target language is introduced daily. Upon successful completion of the course, students should be able to communicate at a novice-mid to novice-high level.

**Prerequisites**
None

**Eligibility**
Grades 9-12

French II (1 credit) * NCAA Approved
Course Description: This course is a continuation of French I. A textbook, short readers, online texts, and worksheets are used to give students practice in the four basic skills of second-language learning. The work of Level One French is first reviewed and then practiced. Students will continue to enhance vocabulary and conjugate verbs in a variety of tenses, enabling a wider variety of communicative abilities. Students will practice retelling stories, writing letters and short essays, creating skits and videos, and actively listening to various media excerpts. Topics of study include the works of Victor Hugo, French artists and musicians, the history and culture of Quebec, and the Acadian region of northern Maine. Upon completion of the course, most students will be able to communicate at an intermediate-low level.

**Prerequisites**
French I

**Eligibility**
Grades 10-12

French III (1 credit) * NCAA Approved
This course furthers the fundamental skills begun in French I and French II and places emphasis on conversation and reading comprehension skills as students move toward intermediate level communication. This class is primarily conducted in French and is combined with the French 4 program. These students will examine advanced grammar structures and verb tenses. Students’ progress from short readers and short stories to a novel. Students will be conditioned to writing short constructive responses, letters, and essays. Students conduct presentations in French. French III marks the level of desired proficiency for most students. Due to its challenging nature, a 3% premium will be placed on the final grade. Since individual progress varies at more advanced levels, students show greater ranges in proficiency; the course goal is to promote rigor that encourages students to achieve a level of intermediate-low or higher.

**Prerequisites**
Completion of French II

**Eligibility**
Grades 11 – 12
Spanish IV (1 credit) * NCAA Approved
Spanish IV is a class that is combined with Spanish III. Furthering the skills acquired over the previous three years, students become leaders as they demonstrate greater fluency, greater confidence and greater proficiency in all identified standards. Due to its challenging nature, a 5% premium will be placed on the final grade.

Prerequisites
Completion of Spanish III

Eligibility
Grade 12

French IV NCAA Approved
This is a class that is combined with French III. Furthering the skills acquired over the previous three years, students become leaders as they demonstrate greater fluency, greater confidence and greater proficiency in all identified standards. Due to its challenging nature, a 5% premium will be placed on the final grade.

Prerequisites
Completion of French III

Eligibility - Grade 12

Languages – continued
Additionally, the State of Maine has recently adopted a program to recognize student’s proficiency. Students who are proficient in English and an additional language may earn this award and, potentially, earn credits within the University of Maine system. Houlton High School will be providing the appropriate testing to all seniors. For more information, see https://www.maine.gov/doe/learning/content/world-language/biliteracy.

CONSUMER EDUCATION

Breaking Ground 1 & 2
Breaking Ground is an agricultural class that utilizes the greenhouse and surrounding land to teach students about simple garden techniques, do-it-yourself projects, preserving food, and recycling efforts. Community service and promotional activities are an integral part of this class. This class is designed for the students who like to work with their hands and inspires creativity.

Eligibility
Grades 9-12

Foods and Nutrition (1/2 credit)
This course will cover basic nutrition and food choices for a healthful living. There will be cooking labs that cover different cooking techniques with a variety of different foods. Meal planning and food buying will be covered along with careers in the world of food. Topics included but not limited to will be microwave cooking, low fat cooking, breads, pastry, meats and pasta.

Prerequisite
None

Eligibility
Grades 9-12

Home and Interior Design (1/2 credit)
This class will cover the basics of interior design using the principles and elements of design. They will also learn the historic aspects of home in American History from 1600's to the present. Students will cover inside and outside design features. (Fine Arts Credit)

Prerequisite
None

Eligibility
Grades 9-12
Adulting 101 (1/2 credit)
Classes will focus on the needs of young students to make it on their own. This semester long course will cover a large range of information. Some of the topics we will discuss: basic cooking, cleaning, budgeting, car care, manners and kindness etc.

Prerequisite
None

Eligibility
Grades 9-12

Quilting/Sewing (1/2 credit)
This course will focus on choosing fabrics and patterns as well as operating sewing equipment. Projects may include quilting, mending and other sewing projects. Students are expected to purchase materials for their own bigger projects or may repurpose material available in class. (Fine Arts credit)

Prerequisite
None

Eligibility
Grades 9-12

Financial Fitness (1/2 credit)
Take Charge of your Finances. This course will prepare the student for successful management of their personal finances. This will include credit cards, school loans, budgets, automobile and housing loans and savings. It is a course that addresses the knowledge, skills, attitudes and behaviors associated with the management of your money and debt free education. A project-based approach will be utilized. This is a semester class.

MUSIC

All courses in the music department meet the fine arts requirement

Band (1 credit)
High School Band meets every other day during the week and is offered to any student who is interested in instrumental music and has successfully learned the basic skill of his band instrument. A variety of musical styles are covered through the year. The band performs for public events, such as concerts, parades, hockey and basketball games. (Fine Arts credit)

Prerequisite
Previous wind and percussion instrument instruction or director approval.

Eligibility
Grade 9-12

Chorus (1 credit)
Chorus is open to all students in grades 9-12. The high school chorus performs a variety of music during the year, with emphasis on proper singing technique as well as reading music. The chorus performs in many public events, including concerts, competitions, and exchange tours. Chorus students are eligible for participation in the All-Aroostook and All-State Music Festivals. (Fine Arts credit)

Prerequisite
None

Eligibility
Grades 9-12

Basic Piano and Keyboard (1/2 credit)
This class is designed for students interested in music who have a desire to play the piano or keyboard. Formal class instruction and one-on-one lessons will be used to teach students how to play melody and chords on the piano and keyboard. (Fine Arts)

Prerequisite
None

Eligibility
Grades 9-12 (class size limited)

History of Musical Theater(1/2 credit)
In this course, we will explore the history of the American Musical Theatre, tracing its journey from comic opera to the American musical we know and love today. We will explore these musicals' importance in American culture, discuss their social and cultural relevance, and delve into the works of many important composers. These composers include but are not limited to Gilbert and Sullivan, Rodgers and Hammerstein, Stephen Sondheim, Lerner and Lowe, Meredith Willson, Stephen Schwartz, and Lin-Manuel Miranda. Students will select their own musical to present to the class as a final project.

**Prerequisite**
None

**Modern Band Class**
Modern Band class will teach the student to play guitar, bass guitar, keyboard, and drum set. Students **DO NOT NEED ANY** previous knowledge of how to play an instrument. Students will learn how to play a popular song from areas of Rock, Folk, Country, and Top 40’s. Instruments will be provided to students. Come with a positive attitude and a drive to **rock!**

*Enrollment limited to 14 students*

**Eligibility**
Grades 9 – 12
ART

All courses in Art can be applied toward the fine arts requirement.

Art I (1/2 credit)
This course introduces students to the elements of art and principles of design with an emphasis on skill development, problem solving and art appreciation. Students will create 2D and 3D art works to gain a range of basic art skills, including an exploration of a variety of materials and methods, i.e., printmaking, pottery, sculpture, painting, drawing, etc. In addition to creating art, this course will also include art history and critiques. This course provides opportunities to meet the following standards:

A. Disciplinary Literacy
B. Creation, Performance and Expression
C. Creative Problem Solving
D. Aesthetics and Criticism
E. Visual and Performing Arts Connection

**Prerequisite**
None

**Eligibility**
Grade 9-12

**Art II (1/2 credit)**
This course builds upon material introduced in Art 1, implementing the elements of art and principles of design to develop and strengthen art skills. Students will practice more advance techniques in drawing, painting, 3D art, and will be challenged to deepen their thinking with projects involving practical applications of art skills. This course provides opportunities to meet the following standards:

A. Disciplinary Literacy
B. Creation, Performance, and Expression
C. Creative problem solving
D. Aesthetics and Criticism
E. Visual and Performing Arts Connections

**Prerequisite: Art I**

**Eligibility: Grades 9-12**

**Sculpture (1/2 credit)**
This course allows students to explore 3D sculpture techniques in a variety of media, including wire sculpture, wood, fiber art, air-dry clay, and cardboard. Students will explore 3D processes, learn problem-solving skills that are unique to sculptural art, and learn the history of 3D art forms. This course provides opportunities to meet the following standards:

A. Disciplinary Literacy
B. Creation, Performance, and Expression
C. Creative Problem Solving
D. Aesthetics and Criticism
E. Visual and Performing Arts Connections

**Prerequisite: Art I**

**Eligibility**
Grades 9-12

**Advanced Art (Fall semester 1/2 credit - may be repeated for credit)**

**Advanced Art (Spring semester 1/2 credit - may be repeated for credit)**
In Advanced Art, emphasis is placed on portfolio development based on the individual’s strengths as well as development of a body of work and a personal style. Students are asked to critique their work and the work of others. They must be self-motivated, focused, and willing to stretch and explore as artists. Drawing, painting, sculpture, and craft techniques must be well developed to enroll. Students will focus on developing creativity and improving the quality of their artwork. Sketchbook assignments and out of class work is required. Students will also participate in critiques and develop personal artists’ statements. This course provides opportunities to meet the following standards:

A. Disciplinary Literacy
B. Creation, Performance and Expression
C. Creative Problem Solving
D. Aesthetics and Criticism
E. Visual and Performing Arts Connections

**Prerequisite**
Art 1, one other art elective (totaling 1 full visual art credit) AND written permission of the instructor to enroll

**Eligibility**

11-12
**Drawing (½ credit)**

Students will build on their drawing skills from Art I in this intermediate-level course. Observational drawing will be a primary focus in this class, including drawing from still life, nature, and portraits. Students will explore drawing techniques in black and white media as well as in color and will deepen their skills in realistic and imaginative drawing. Students will examine master drawings from art history as they develop a unique personal style, and we will discuss contemporary applications of drawing skills as they relate to careers in the arts. This course is recommended for students in grades 9 - 11 as they intend to take Advanced Art as seniors.

Drawing will offer opportunities to meet the following standards:
A. Disciplinary Literacy
B. Creation, Performance, and Expression
C. Creative Problem Solving
D. Aesthetics and Criticism
E. Visual and Performing Arts Connection

Prerequisite
Art 1
Prerequisite
None
Eligibility
INDUSTRIAL ARTS
The Industrial Arts Department offers full year courses. A student may have the option to take an Industrial Arts course that will meet the Fine Art requirement with the instructor's permission. A handout of the Fine Art requirements will be available to the student who inquires about this option. Please note that a student choosing an Industrial Arts course to meet a Fine Art requirement must enroll at the start of the school year. These courses are divided into two different levels. A level 1 course is open to everyone Grades 9-12. These courses do not require prerequisite for enrollment. In most cases, a level 2 course requires some type of prerequisite. Usually Grade 9 and 10 students will be taking level 1 courses. When registering for courses, students should pay close attention to the level and prerequisites.

Woodworking Technology I (1 credit)
Students will be introduced to hand and power woodworking equipment. Basic concepts of working processes with a strong emphasis on safety will be presented. Project plans, tool identification and proper usage will be the basic building blocks as students experience and develop woodworking skills.

Prerequisite
None
Eligibility
Grades 9-12

Woodworking Technology II
Students will review tool safety and develop a better-defined knowledge base for the equipment and process performed. Instruction on advance processes, such as adhesives, complex equipment, set-up and maintenance will provide problem solving skills. Topics of the woodworking industry will be presented and independent research of new equipment and techniques will be supported.

Prerequisite
Woodworking Technology I
Eligibility
Grades 10-12

Metalworking I (1 credit)
This is an introductory level course open to anyone. Students will start with an introduction to measuring and drafting techniques. Students will be introduced to sheet metal work and complete at least two basic sheet metal projects. Oxyacetylene welding will also be taught and students will work through a progress chart of basic welding joints and processes. Instruction will also be given in basic power machines with an emphasis on two-cycle and four-cycle small engines. Students will disassemble, make necessary repairs and reassemble their own engine.
Metalworking II (1 credit)
This is an introductory level course in Oxyacetylene and electric arc welding. Safe operating procedures for welding equipment and related machines are studied and put into practice. Fundamentals of torch work such as welding in the flat, vertical, and horizontal, and overhead position, along with brazing and cutting are covered through a learning progress chart. Students will also be introduced to and work with AC electric welding, and complete a progress chart. Each student will have the opportunity to manufacture a project upon completion of the progress charts.

Prerequisite
Metalworking I suggested

Eligibility
Grades 9-12

Advanced Metalworking (1 credit)
Advanced Metalworking is open to students who successfully completed Basic Metalworking. The course will start with a refresher in Oxy-Acetylene welding and cutting techniques, and AC shielding metal arc welding. Students will advance through a progress chart focusing on DC welding and techniques for nonferrous metals. Instruction in mig and tig welding will be the focus of the second semester. Students are expected to work on and complete individual metal working projects in the third and fourth quarters.

Prerequisite
Successful completion of Metalworking II

Eligibility
Grades 10-12

Art in Metals
This course combines the skill and safety of metal working with the creativity of art by designing and fabricating metal art pieces. A strong emphasis on design and metal process will encompass the course as students work through individual projects. Students should complete Metals I before taking Art in Metals.

Prerequisite
Metals I or teacher permission

Eligibility
Grades 11-12

Art in Wood
This course combines the skill and safety of woodworking with the creativity of art by designing and fabricating wooden art pieces. A strong emphasis on design and the woodworking process will encompass the course as students work through individual projects. Students should complete Wood Tech I before taking Art in Wood.

Prerequisite
Wood Tech I or teacher permission

Eligibility
Grades 11-12

JOBS FOR MAINE GRADS

JMG 10/11 (1/2 credit)
Recommended for all sophomores or juniors before senior year. The program gives students the opportunity to learn about their strengths, interests, abilities, and work values and line them up with appropriate careers and educational/training opportunities. The students use a variety of surveys and research tools to develop a career path. We spend time looking at college cost and alternative forms of education. We do some community service during our time.

Grade 10/11

JMG 12/School to Work (1 credit)
Our School to Work program assists students in graduating from high school and prepares them for the world of work or post-secondary education. There is a competency-based curriculum in which students will learn basic skills, career development, job attainment, and job retention. Students will also learn how to write powerful resumes and cover letters to better their chances of getting a job. Aside from in class tasks, students will also be asked to actively participate in
community service. After graduation, the job specialist will follow-up on students for nine months to make sure that students achieve a positive outcome (full-time job, technical school, college, part-time job, etc.). Students must be willing and able to participate in every phase of the program.

First Semester: Making the right decision: college/career/training discovery
College application-FAFSA (college bound) Budget (non college) community service projects (2)
Second Semester: Scholarships/FAFSA-Budgeting - Job attainment skills

**Prerequisite**
JMG 11 preferred

**Eligibility**
Grade 12
PHYSICAL EDUCATION

Physical Education 9-10 (1/2 credit)

During each semester, students have a wide variety of activities to participate in. Physical fitness testing, golf, soccer, tennis, volleyball, racquetball, lacrosse, floor hockey, basketball, aerobics, badminton, softball, speedball, ultimate Frisbee, team handball, and tennis are some of the activities that students can participate in. Students will be required to keep a Personal Fitness Plan in order to pass four graduation standards which are:
- Understands the F.I.T.T. Principal
- Understands the Principles of Training Related to Health Related Fitness Components
- Understands how to use Baseline Information to Create a Personal Fitness Goal
- Understands how to Self-Evaluate the Effectiveness of a Personal Fitness Plan

Outdoor Education I (1/2 credit)

Outdoor Education I will be offered in the fall semester. This course teaches the knowledge and skills needed to be proficient in the outdoor world. The purpose of the class is to provide an opportunity for students to become involved with non-traditional types of activities that include; climbing, camping, orienteering, hiking, and team building through games and physical challenges. The lifelong skills that are emphasized and promoted are: leadership, self-esteem, trust, and responsibility. Students will learn and use the “challenge by choice” philosophy, and will become acquainted with briefing and debriefing.

**Prerequisite**
None (This class is not a substitute for phys. ed. requirement)

**Eligibility**
Grades 9-12

Outdoor Education II (1/2 credit)

Spring semester. This course teaches the skills to be proficient in the outdoor world. The purpose of this class is to provide an opportunity for students to become involved with non-traditional type activities that include winter camping, cross country skiing, snowshoeing, and climbing. The high point of the program is white water canoeing. Students will spend a great deal of time preparing in the classroom for these activities.

**Prerequisites**
Outdoor Education I (this class is not a substitute for phys. ed. requirement)

**Eligibility**
Grades 9-12

Outdoor Education TA – Teacher Assistant (1/2 credit)

The Teacher’s Assistant program is essential for the Outdoor Ed I and Outdoor Ed II to be successful. TAs should much of the responsibility of teaching, preparation, planning, and overall day-to-day operations of the OE classes and trips. When TAs actively participate with this program, they will become confident, effective outdoor leaders. They will learn effective teaching styles and group dynamics. TAs need to be willing to give up a great deal of their free time in order to ensure a successful experience of the OE I and OE II classes. This course will run simultaneously with OE I & II.

**Prerequisites**
Outdoor Ed I & II and approval on instructor (This class is not a substitute for phys. Ed. requirement)

**Eligibility**
Grades 11-12
CP English 9  
English 9  
Honors English 10  
CP English 10  
English 10  
AP English Language  
CP English 11  
English 11  
*AP English 12  
*CP English 12  
English 12  
Yearbook Creative  
Writing Social  
Justice 101  
Freshman Social Studies Seminar  
AP European History  
CP World History  
World History  
*AP United States History  
*CP United States History  
United States History  
*CP U.S. Government  
History Seminar - Fall  
History Seminar – Spring  
CP Intro Trigonometry  
Applied Math for Trades  
Applied Math for Statistics  
CP Applied Math for Trades  
CP Intro to Statistics  
CP Intro to Trig.  
CP Math for Technology  
Algebra I  
CP Algebra I with Lab  
CP Algebra I  
Honors Algebra I  
CP Geometry  
Geometry Honors  
Geometry Alg. II  
CP Algebra II  
Honors Algebra II  
Honors - Trigonometry/Advanced Mathematics  
Honors - Calculus  
Environmental Science  
Biology with Lab  
Honors Biology  
Introduction to Physics/Chemistry with Lab  
CP Chemistry with Lab  
CP Physics with Lab  
Introduction to Earth Science  
Computer Science  
CP Exploring Principals of Computer Science  
AP Principals of Computer Science  
Human Anatomy and Physiology  
Health I  
Health II  
Women’s Health  
AP Physics  
Forensics  
Principles of Molecular Genetics w/lab  

Science Seminar  
Spanish I  
Spanish II  
Spanish III  
Spanish IV  
French I  
French II  
French III  
French IV  
Breaking Ground I and II  
Foods and Nutrition  
Adulting 101  
Housing and Interior Design  
Quilting/Sewing  
Financial Fitness  
Band  
Chorus  
Basic Piano and Keyboard  
History of Musical Theater  
Modern Band  
Art I  
Art II  
Drawing  
Sculpture  
Advanced Art  
Woodworking Technology I and II  
Metalworking I and II  
Adv. Metalworking  
Art in Metals  
Art in Woodworking  
Jobs for Maine Grads (JMG)  
JMG 12  
JMG 11  
Physical Education  
Outdoor Education I - Fall  
Outdoor Education II - Spring  

REGION TWO  
Auto Collision I and II  
Automotive Technology I and II  
Culinary Arts I and II  
Welding I and II  
Early Childhood I and II  
Forest Management I and II  
Health Science (CNA)/Medical Terminology  
Intro to Medical Professions  
Law Enforcement I and II  
EMT – Emergency Medical Technician  
Electrical Trades I and II  
Mechanical Services  
Bridge Program  
* indicates Dual Enrollment