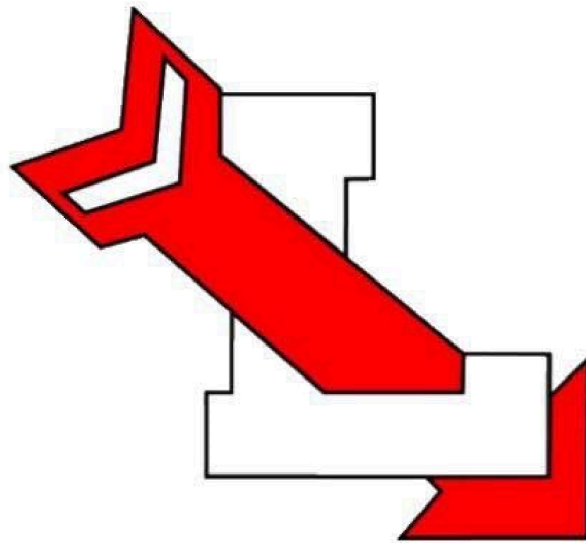


Lowell High School Curriculum Guide



Learners Today - Leaders Tomorrow - Red Arrows for Life!

History of the Red Arrows

The 32nd "Red Arrow" Division of the United States Army gained fame during World War I and II for their fighting heroism. The division included a number of men from western Michigan, including Lowell and the surrounding community. The unit recorded more combat time than any other Army division and received numerous commendations for bravery, courage, and valor. No battleground territory defended by the 32nd was ever lost and every attempt by the division to break through the enemy lines was successful. The words "never yield" from the original fight song accurately characterizes the spirit of the Red Arrow Division. The Red Arrow logo was officially adopted in the fall of 1947, a lasting and deserving tribute to a heroic group of west Michigan fighting men.

Integrity - Compassion - Responsibility - Honesty - Respect - Acceptance

Lowell High School Counseling Office

The Lowell High School Counseling Office believes that a quality comprehensive guidance and counseling program is an integral part of the total education program. It is our mission to enhance each student's ability to acquire the knowledge, skills, and attitudes needed in a dynamic and diverse society by promoting academic, career, and person/social development opportunities.

We hope to enable students to discover and develop individual skills to reach their potential, encourage life-long learning, and empower students to be contributing members of their community. Services include: academic advising, personal counseling, student records/transcripts, Educational Development Plans, scheduling, college applications/financial aid, scholarships, and testing.

Students are assigned to a counselor based upon the student's last name.

RJ Boudro A-G
Tory Parsons H-Pe
Trisha Wallace Pf-Z

Additional services are provided through the following professionals:

School Psychologist, Amber Rediske
Social Worker, Sheri Woolery
Speech Therapist, Stacey Watson
Teacher Consultant, Amanita Fahrni

Table of Contents

| | |
|---|----|
| Graduation Requirements | 2 |
| Registration Information and Program Planning | 3 |
| Michigan Merit Curriculum: Personal Curriculum | 5 |
| Kent Career Technical Center | 6 |
| Additional Opportunities | 7 |
| Course Offerings | 8 |
| Business Department Curriculum | 10 |
| English Department Curriculum | 15 |
| Fine/Visual Arts & Drama Department Curriculum | 23 |
| Music Department Curriculum | 27 |
| Foreign Language Department Curriculum | 31 |
| Math Department Curriculum | 34 |
| Physical Education/Health Department Curriculum | 39 |
| Science Department Curriculum | 42 |
| Agriscience Department Curriculum | 47 |
| Social Studies Department Curriculum | 49 |
| Technology Department Curriculum | 54 |
| Other Courses | 57 |
| Special Education Services | 58 |
| NCAA Eligibility | 59 |

LHS Graduation Requirements

Graduation from Lowell High School implies that students have satisfactorily completed an approved course of study that includes the Michigan Merit Curriculum, all required State and local assessments, and all local requirements. It is the responsibility of the students to make sure that they enroll in and pass all required classes and meet all graduation requirements. To receive a LHS diploma, students must be attending full time for one year prior to graduation.

| English – 4 Credits | | Science – 3 Credits | |
|---|---|---|---|
| English 9 English 10 | English 11 or AP English 4 th credit of English | Biology/Agriscience Biology Physics | Chemistry |
| Math – 4 Credits | | Social Studies – 3 Credits | |
| Algebra 1 Geometry Algebra 2 | 4th Credit Math/ Final Yr. Math Experience | Economics US History/AP US History Government/AP Government | World History A World History B/AP European History |
| Foreign Language – 2 Credits | | Other Required Courses/Credits - 3 Credits | |
| Two years/credits of the same language or 1 year/credit of foreign language with 2 years of CTE (Career Technical Education- KCTC) | | Computer 1 (.5 credit)* Fine Arts/VPAA(1 credit) | Health (.5 credit) Physical Education (1 credit)* |
| Additional Requirements: | | Total Credits Required for Graduation from LHS | |
| <ul style="list-style-type: none"> Students MUST have a math experience in their final year of high school. Students MUST complete CPR and AED training prior to graduation. Students MUST complete all required State of Michigan Assessments. | | Required Courses/Credits - 19 credits Elective Courses/Credits - 9 credits Total Credits Required - 28 credits <i>*Computer 1 and .5 credit of the PE requirement are local requirements.</i> | |

- **Beginning with the graduating Class of 2028, students MUST complete .5 credits in Personal Finance as part of the 4 credits requirement in Math.**
- All students complete an online learning experience through an integrated approach including online learning incorporated into each required course, implementation of a college and career planning tool in grade 7-12, and successful completion of Computers 1.
- Students at LHS are expected to complete biology, chemistry and physics in order to complete the expectations of the Michigan Science Standards. In limited situations, students may be approved for other science course sequences as allowed under the requirements of the Michigan Merit Curriculum with guidance office recommendation and approval of the administration.
- Earning credit for a high school course while attending middle school will **NOT** reduce the credits that **MUST** be earned as a high school student during grades 9-12 (28 credits). Taking a high school course while in middle school can create flexibility in scheduling in grades 9-12.
- Students may transfer to LHS a maximum of seven (7.5) credits per year, earned from an accredited high school, to count towards LHS graduation.
- On-line courses from accredited schools require review by the assigned counselor and permission of the high school principal in order to be considered for high school credit and will be awarded a letter grade.
- Students transferring from homeschool will receive LHS credit only if the credit comes from an accredited homeschool program.
- **Students who take four years of marching band may waive the one credit physical education requirement.**
- Foreign exchange students **do not** graduate from LHS, nor are they ranked with their class. Exchange students may participate in the Graduation Commencement Ceremony if recommended by the counseling office and approved by the principal.
- Transfer students from non-accredited institutions may be required to pass competency exams, at the discretion of the school, to be eligible for a diploma from Lowell High School.
- Students are required to be enrolled in and to regularly attend five (5) classes for 12 trimesters. Students having met all graduation requirements at the end of the 11th trimester may request to graduate early and have the 12th trimester attendance requirement waived. The request must be supported by the high school principal and approved by the superintendent. This request must be made prior to the end of the 9th trimester.

Registration Information and Program Planning

Credit Definition

Students will receive **.5 credit** for every course successfully completed each trimester *unless it is a repeat of a course already passed*. Required courses must be passed or repeated until a passing grade is earned.

Earning Credit

At the beginning of each course the teacher will give students a syllabus which will explain the expectations and requirements of the course. In order to receive a passing grade and earn credit for any class at Lowell High School, students must meet attendance requirements and complete satisfactorily all course requirements (i.e. research papers, book reports, tests, exams, etc.).

Failure to pass sixty percent (60%) of the trimester will result in a trimester grade of an “E”. The trimester grade will be computed by the percentage earned from the trimester plus the final exam. Each grade will be calculated into the students’ cumulative Grade Point Average (GPA) and earned credits which appear on the student transcript.

Outside Credits

Students may earn outside credits in summer school, night school or online courses. Courses will be added to the transcript with the final grade. Students taking outside credits need to have **pre-approval** from their counselor and the principal.

Course Selection

Students should discuss career plans and course requests with counselors, parents, and teachers before making course requests. Please choose all courses, including alternates, with great care and deliberation. Students cannot choose teachers or periods of the day during course registration.

Course Enrollment

Each grade level has specific required classes that must be taken during that grade.

- All students are required to take a minimum of five classes (**2.5 credits**) each trimester for twelve trimesters.
- An exception would be granted to students who are eligible for the dual enrollment option and take college course(s) along with the required high school courses.
- Kent Career/Technical Center students must be enrolled in a minimum of three classes at Lowell High School per trimester.
- Students must attend on a regular basis in accordance with the *LHS Attendance Policy*. Any exceptions to this policy will be considered on an individual basis and must be approved by the Administration and Counseling Department. See the *Student Handbook* for more information.
- Class selection should be taken seriously, as should alternative course choices. Students are making a commitment to their chosen classes.

Class Changes

Students must make careful choices when making course requests. If a course must be changed after registration materials have been turned in, students should contact the Counseling Office. Once the school year begins, students' schedules become final. It is the policy of Lowell High School that students stay in the courses for which they registered. Class changes are limited and generally given for the following reasons:

- Students have failed the trimester and would be unable to successfully continue the course.
- To make up a course earlier failed.
- Incomplete schedule.
- Duplicate classes.
- Placement changes to KCTC/Dual Enrollment etc.
- Educationally sound reasons.

Advanced Placement (AP) Courses and full year courses cannot be entered or dropped at the beginning of second/third trimester except for special circumstances with parent, principal and teacher approval.

Counselors have the authority to select alternatives if choices do not work in the student's schedule. Counselors will be available on designated dates prior to school beginning for schedule changes due to extenuating circumstances only. The deadline to make a change is dismissal on the third day of school at the beginning of each trimester.

Adding/Dropping Classes

Students who drop a course after the 1st week will show an "E" on their permanent record. Requests to add or drop a class must be completed during the deadline dates set up by the Administration and the Counseling Office. No classes will be changed until completion of the first day of school. Students will need to fill out a *change form* from the Counseling Office. Changes occurring after this deadline will require administrative approval.

Repeating Courses

Students may repeat any previously passed class to earn a higher grade on a space available basis. The lower grade will **not** be computed in the GPA and will **not** be counted toward the total graduation requirements. Any failure in a required course must be made up at the first possible opportunity. If a student wishes to take a course but has failed the subject that is a prerequisite, the failure must be made up before taking the next course. The original "E" and the passing grade will both be computed in the GPA and appear on the transcript, but students will only receive credit for the trimester in which they pass the class.

Senior Status Requirements

In order to take part in the graduation ceremonies, all students must have completed all requirements by the Monday prior to graduation commencement. All fourth year students will be notified of their credit status as soon as the information is available but no later than September of their senior year.

Class Ranking

Students are academically ranked in their graduating class based upon their cumulative grade point average (GPA). To be ranked with their class students must have a letter grade in at least 50% of their classes. Students with a GPA of 3.95 or higher (Summa Cum Laude), students with a 3.75 or higher (Magna Cum Laude) and students with a 3.50 or higher (Cum Laude) will be recognized as honor students. In order to be ranked for Valedictorian or Salutatorian students must have attended Lowell High School from the beginning of their Junior year.

Transfer Students

When students transfer from another high school, individual consideration will be given to their transcript in checking the number of credits needed for graduation. A maximum of 7.5 credits per year will be applied toward the requirements for graduation. Home schooled students will be given credit rather than letter grades. In order to receive a Lowell High School diploma, transfer students must have completed the last year of class work at Lowell High School unless permission is granted in advance by the Principal.

Incomplete Grade Policy

A teacher may award a student an incomplete grade for a course based on absences or work not completed due to other circumstances. The student will have four weeks (unless otherwise indicated in writing by the teacher, counselor or administrator) to make up the missing work for the teacher and then the grade will be changed to a letter grade. If the student fails to make up the missing work, then the student will receive a zero on the missing assignment and the grade will be changed to reflect the grade earned for the trimester.

Transcripts

Transcripts can be requested on the [LHS website](#). Transcript information includes all courses taken, grades received, cumulative grade point average. The LHS Profile is printed on the back of the transcripts for all graduates.

Advanced Placement

A weighted grading scale will be utilized for Advanced Placement courses offered at Lowell High School for both internal and external purposes. Honor points for grades received in Advanced Placement classes will be given a 1.0 bump to their GPA. Advanced Placement courses offer a national standardized test at the end of the year-long course that may earn college credit for students. Lowell High School offers the following Advanced Placement (AP) courses and calculates GPA based on the following grading system:

| | <u>Regular Grading System</u> | <u>AP Grading System</u> |
|--------------------------|-------------------------------|--------------------------|
| AP Calculus AB | A = 4.000 | A = 5.000 |
| AP Calculus BC | A- = 3.667 | A- = 4.667 |
| AP Statistics | B+ = 3.333 | B+ = 4.333 |
| AP Precalculus | B = 3.000 | B = 4.000 |
| AP Biology | B- = 2.667 | B- = 3.667 |
| AP Chemistry | C+ = 2.333 | C+ = 3.333 |
| AP Physics | C = 2.000 | C = 3.000 |
| AP U.S. History | C- = 1.667 | C- = 2.667 |
| AP European History | D+ = 1.333 | D+ = 2.333 |
| AP Government & Politics | D = 1.000 | D = 2.000 |
| AP Psychology | D- = 0.667 | D- = 1.667 |
| AP English Literature | E = 0.000 | E = 0.000 |
| AP English Language | | |
| AP Spanish Language | | |
| AP Computer Science | | |

Michigan Merit Curriculum-Personal Curriculum

Students must successfully complete all Michigan Merit Curriculum requirements (18 credits) and all local requirements in order to earn a high school diploma. In some cases, a student/family may request a Personal Curriculum to modify a limited number of Michigan Merit Curriculum (MMC) requirements based on the student's intended post secondary plans. The Personal Curriculum is developed by a team that includes the student, parent, counselor, and teacher(s). The plan developed by the team MUST be consistent with the student's Educational Development Plan (EDP) and it must include as much of the MMC as practicable for the student. The plan must also include measurable goals and an evaluation process to ensure progress toward successful completion resulting in a diploma. For more information on the Personal Curriculum, contact your assigned counselor or visit the Michigan Department of Education Personal Curriculum page at <https://www.michigan.gov/mde/services/academic-standards/mmc/personal-curriculum>.

Kent Career Technical Center

The Kent Career/Technical Center (KCTC) located at 1655 East Beltline, NE, Grand Rapids, offers training in many skill areas to juniors and seniors. Additional information can be found at www.thetechcenter.org. Classes meet 2.25 hours per day, 5 days per week throughout the school year. Students earn three (3) credits per year for successful completion of course requirements. No tuition is charged. Bus transportation between the high school and the KCTC will be available for first, second, and third sessions. Students who wish to attend the KCTC must complete an official visit and submit the KCTC Enrollment request by February of the year prior to the year they wish to enroll. Students choosing to participate in KCTC may have limited elective opportunities at the high school due to conflicting program schedules. AP classes, band, orchestra and other electives may not be accessible while participating in KCTC programming. KCTC is open to all students in Kent County and space is limited. The counselors will submit the enrollment requests and then KCTC will communicate with families in May as to whether or not they received a spot in their program.

KCTC PROGRAMS

| | |
|--|---|
| Arts & Communication Pathway <ul style="list-style-type: none">• Graphic Communications• Digital Animation and Game Design | Natural Resources & Agriscience <ul style="list-style-type: none">• Agriscience for Plants & Animals |
| Business, Management, Marketing & Technology Pathway <ul style="list-style-type: none">• Entrepreneurship & Marketing• Networking and Cybersecurity | Human Services Pathway <ul style="list-style-type: none">• Hospitality/Culinary• Criminal Justice• Teacher Academy |
| Engineering/Manufacturing & Industrial Technology Pathway <ul style="list-style-type: none">• Heating, Ventilation, Air Conditioning and Refrigeration• Precision Machining Technology• Engineering & Architectural Design• Auto Collision Repair• Automotive Technology• Diesel and Equipment Technology• Aviation Maintenance Technology• Aviation Electronics• Applied Construction Technology• Mechatronics• Welding Technology | Health Sciences Pathway <ul style="list-style-type: none">• Biomedical Technology & Research• Diagnostic• Health Career Foundations• Nurse Tech/Patient Care Tech (NT/PCT)• Emergency Medical Services (EMS)• Medical Assistant (MA)• Pharmacy |

Additional Opportunities

Testing Out

Lowell High School in compliance with the School Code of Michigan, will allow students to test out of any course in any subject area. PA 123 and PA 124, passed in 2006, provides students the option to demonstrate that they meet or exceed the Michigan Merit Curriculum (MMC) content expectations associated with the subject area. Students will be required to demonstrate mastery of course content through either a comprehensive exam, written papers, projects, portfolios or other comparable assessments. All students have the opportunity to test out in any credit areas required for graduation.

- Course advancement and credit will only be granted for a 77% or higher. If there is no final exam, credit will be earned by mastery of course requirements through written papers, projects, portfolios or other comparable assessments.
- Credits earned through testing out will not be included in the computation of grade point average and will be a CR/NC.
- Credits earned through testing out of a high school course will count toward graduation credit.
- Testing out will occur three times per year during the exam period of each trimester.

The test out window for all students is during final exam week each trimester. 8th graders will be able to attempt to test out of courses during a designated testing window in May. **Testing out is the exception not the norm.** This is not an independent study, but a demonstration of prior knowledge.

Dual Enrollment

In an effort to meet students' needs and interests, school districts have allowed their students to attend courses at local colleges or universities in addition to their own high school. This is called "Dual Enrollment".

Public Act 160 of 1996 created the Postsecondary Enrollment Options Act which directs school districts to assist students in paying tuition for courses at Michigan public or private colleges or universities. Students who enroll in college courses that are endorsed by their local high school may elect to receive both college and high school credit. At Lowell High School this credit will apply toward graduation and be counted as a regular class in every respect.

Students may also enroll in college classes that are not part of the dual enrollment program. In this case, no high school credit will be awarded and the student will be responsible for all tuition, fees, and other expenses. Students who take such a course will still be required to carry a full high school credit load.

Lowell High School students may enroll in dual enrollment if they are eligible for regular graduation, have passed all classes, have earned a qualifying score on the SAT, PSAT, and meet the dual enrollment admissions requirements set by the college. Interested students should see their counselor well in advance of the trimester in which they plan to enroll; February for fall enrollment, and September for winter enrollment. If a student participating in the postsecondary program fails to successfully complete their course, the student and his/her parents are responsible for reimbursing the District for such charges incurred by the District.

Articulation

Lowell High School may participate in articulation programs with local colleges who grant college credits to high school graduates who have mastered specific job and/or academic skills. Check with your counselor for information about current articulation agreements.

Launch U/Middle College

Launch U is a tuition-free, Early College Program hosted by the Kent ISD. Early college is an opportunity for high school students to earn a college degree, by taking a combination of high school and college courses. By extending the high school experience to a 5th year, students earn both a high school diploma and an associate degree. Upon completion of an early college program, students may directly pursue a career or continue with higher education.

Students start Launch U in the 10th or 11th grade, depending on their pathway. They attend high school classes at their regular high school or online and then attend college courses at Kent ISD through 12th grade. These college courses are taught by instructors from Grand Rapids Community College. During their "13th grade", students attend college courses full-time at GRCC.

Online Courses

Lowell High School students may take up to two online classes per academic term. Online classes MUST be pre-approved by the principal and MUST be requested during the established timelines for course enrollment and schedule changes. Only those classes listed in the [Michigan Online Course Catalog](#) or otherwise approved by the Board of Education will be granted credit. Students should seek approval from the Counseling Office BEFORE enrolling in online courses. Lowell High School students enrolling in an on-line class must agree to the following:

- Students may take an online course for credit recovery, advancement, or to satisfy a specific graduation requirement. This online course can be in addition to their full LHS schedule or in some cases may be built into their LHS schedule.
- If a student wishes to take an online course they must complete the application, readiness survey and recommendation form. They must also meet with their counselor to discuss possible options and verify that the online course will satisfy a graduation requirement.
- Online courses, once completed, will be listed on the high school transcript and will be given the grade issued by the online provider. Classes will NOT be given a grade CR/NC unless otherwise approved by the principal.
- If a student is taking an online class as one of their five high school courses and fails to complete the course in the designated time they will receive a grade of an E on the high school transcript.
- Seniors taking an online course needed for graduation MUST have it completed and an official grade submitted to their counselor five days before graduation rehearsal.
- An official grade report must be provided to the Registrar before any course may be added to the student's high school transcript.
- Lowell High School reserves the right to remove a student from an online course if they have not completed 5 hours of coursework within the first 7 days and at any time if the student does not demonstrate adequate engagement/progress.

| DEPARTMENT | COURSE NAME | # TRIS | PREREQUISITE |
|------------------|-----------------------------|---------|--------------|
| Business | Computer 1 | 1 TRI | |
| Business | Adv. Computer Applications | 1 TRI | X |
| Business | Intro. to Business | 1 TRI | |
| Business | Intro. to Accounting | 1 TRI | |
| Business | Advertising/Marketing | 1 TRI | X |
| Business | Business Law | 1 TRI | X |
| Business | Personal Finance | 1 TRI | X |
| Business | Work Based Learning | M | X |
| Business | Sport Marketing | 1 TRI | X |
| Business | Computer Programming | 1 TRI | |
| Business | Entrepreneurship 101 | 1 TRI | X |
| Business | AP Computer Science | 2 TRI | X |
| Business | AP Computer Sci. Principles | 3 TRI | X |
| English | English 9 | 2 TRI | |
| English | English 10 | 2 TRI | X |
| English | Honors English 10 | 2 TRI | X |
| English | English 11 | 2 TRI | X |
| English | English 12 A | 1 TRI | X |
| English | English 12 B | 1 TRI | X |
| English | Media Literacy | 1 TRI | |
| English | Creative Writing | 1 TRI | X |
| English | Adv. Creative Writing | 1 TRI | X |
| English | Literature and Film | 1 TRI | X |
| English | Debate | 1 TRI | X |
| English | College English | 1 TRI | X |
| English | Shakespeare | 1 TRI | X |
| English | Speech | 1 TRI | X |
| English | AP Eng. Lang. & Comp. | 3 TRI | X |
| English | AP Eng. Lit. & Comp. | 3 TRI | X |
| English | College & Test Prep | 1 TRI | X |
| English | Core Assist Eng. 10/11 | 1-2 TRI | X |
| English | English 9C | 1 TRI | X |
| English | Yearbook | 3 TRI | X |
| Fine/Perform Art | Art 1 | 1 TRI | |
| Fine/Perform Art | Art 2 | 1 TRI | X |

| DEPARTMENT | COURSE NAME | # TRIS | PREREQUISITE |
|------------------|-------------------------|--------|--------------|
| Fine/Perform Art | Adv. Drawing & Painting | 1 TRI | X |
| Fine/Perform Art | Ceramics 1 | 1 TRI | X |
| Fine/Perform Art | Adv. Ceramics 2 | 1 TRI | X |
| Fine/Perform Art | Adv. Ceramics 3 | 1 TRI | X |
| Fine/Perform Art | Studio Art | 1 TRI | X |
| Fine/Perform Art | Photoshop/Comp. Art | 1 TRI | X |
| Fine/Perform Art | Theatre | 1 TRI | |
| Fine/Perform Art | Acting & Directing | 1 TRI | X |
| Fine/Perform Art | Symphonic Band | 2 TRI | X |
| Fine/Perform Art | Symphonic Winds | 2 TRI | X |
| Fine/Perform Art | Concert Band | 3 TRI | X |
| Fine/Perform Art | Marching Band | 1 TRI | X |
| Fine/Perform Art | Jazz Band | 1 TRI | X |
| Fine/Perform Art | Concert Orchestra | 3 TRI | X |
| Fine/Perform Art | Symphony Orchestra | 3 TRI | X |
| Fine/Perform Art | Chamber Orchestra | 3 TRI | X |
| Fine/Perform Art | Bella Voce Choir | 3 TRI | |
| Fine/Perform Art | Concert Choir | 3 TRI | |
| Fine/Perform Art | Music Appreciation | 1 TRI | |
| Fine/Perform Art | Intro. to Music Tech. | 1 TRI | |
| For. Language | French 1 | 2 TRI | |
| For. Language | French 2 | 2 TRI | X |
| For. Language | French 3 | 2 TRI | X |
| For. Language | French 4 | 2 TRI | X |
| For. Language | Spanish 1 | 2 TRI | |
| For. Language | Spanish 2 | 2 TRI | X |
| For. Language | Spanish 3 | 2 TRI | X |
| For. Language | Spanish 4 | 2 TRI | X |
| For. Language | AP Spanish | 3 TRI | X |
| Math | Algebra | 2 TRI | |
| Math | Geometry | 2 TRI | X |
| Math | Algebra 2 | 3 TRI | X |
| Math | Algebra 2 Concepts | 2 TRI | X |
| Math | Accelerated Algebra 2 | 2 TRI | X |
| Math | FST | 2 TRI | X |

| DEPARTMENT | COURSE NAME | # TRIS | PREREQUISITE |
|------------|--------------------------|--------|--------------|
| Math | Precalculus | 2 TRI | X |
| Math | Geometry Applications | 2 TRI | X |
| Math | Algebra Essentials | 3 TRI | X |
| Math | AP Statistics | 3 TRI | X |
| Math | AP Calculus AB | 3 TRI | X |
| Math | AP Calculus BC | 3 TRI | X |
| PE/Health | Phys. Ed. Fall | 1 TRI | |
| PE/Health | Phys. Ed. Winter | 1 TRI | |
| PE/Health | Phys. Ed. Spring | 1 TRI | |
| PE/Health | Pilates & Aerobics | 1 TRI | |
| PE/Health | Healthy Lifestyles | 1 TRI | |
| PE/Health | Adv. Phys. Ed. | 1 TRI | X |
| PE/Health | Body Mechanics Fall | 1 TRI | |
| PE/Health | Body Mechanics Winter | 1 TRI | |
| PE/Health | Body Mechanics Spring | 1 TRI | |
| PE/Health | Health Education | 1 TRI | |
| Science | Biology | 3 TRI | |
| Science | Agriscience Biology | 3 TRI | |
| Science | AP Biology | 3 TRI | X |
| Science | Chemistry | 2 TRI | X |
| Science | Conceptual Chemistry | 2 TRI | X |
| Science | AP Chemistry | 3 TRI | X |
| Science | Physics | 2 TRI | X |
| Science | Conceptual Physics | 2 TRI | X |
| Science | AP Physics | 3 TRI | X |
| Science | Science Research | M | X |
| Science | Astronomy | 1 TRI | X |
| Science | Forensic Science | 1 TRI | X |
| Science | Anatomy and Physiology A | 1 TRI | X |
| Science | Anatomy and Physiology B | 1 TRI | X |
| Science | Animal Science | 1 TRI | |
| Science | Animal Science II | 1 TRI | X |

| DEPARTMENT | COURSE NAME | # TRIS | PREREQUISITE |
|----------------|-------------------------------|--------|--------------|
| Science | Natural Resources Ecology | 1 TRI | |
| Science | Plant Science | 1 TRI | |
| Social Studies | World History A | 1 TRI | |
| Social Studies | Economics | 1 TRI | |
| Social Studies | US History A | 1 TRI | X |
| Social Studies | US History B | 1 TRI | X |
| Social Studies | AP US History | 3 TRI | X |
| Social Studies | History vs. Hollywood | 1 TRI | X |
| Social Studies | US Current Issues | 1 TRI | X |
| Social Studies | Psychology | 1 TRI | |
| Social Studies | Child Psychology | 1 TRI | X |
| Social Studies | World History B | 1 TRI | X |
| Social Studies | American Government | 1 TRI | X |
| Social Studies | AP American Government | 3 TRI | X |
| Social Studies | AP European History | 3 TRI | X |
| Social Studies | AP Psychology | 3 TRI | X |
| Technology | Home Essentials & Math Apps | 1 TRI | |
| Technology | Adv. Woods Metals & Math Apps | 1 TRI | X |
| Technology | Architecture | 1 TRI | |
| Technology | Engineering 1 | 1 TRI | |
| Technology | Engineering 2/Guitar Building | 1 TRI | X |
| Technology | Digital Photography 1 | 1 TRI | |
| Technology | Digital Photography 2 | 1 TRI | X |
| Technology | Video Broadcasting (RAR) | M | X |
| Technology | Video Production | 1 TRI | |
| Technology | Radio Broadcasting (WRWW) | M | |
| OTHER | KCTC Session 1 (2 PERIODS) | M | X |
| OTHER | KCTC Session 2 (2 PERIODS) | M | X |
| OTHER | KCTC Session 3 (2 PERIODS) | M | X |
| OTHER | Dual Enrollment | M | X |
| OTHER | FFA Leadership | M | X |
| OTHER | Student Leadership | M | X |

All course descriptions contain the vital information a student needs in order to make good course selections. Students should carefully note any special conditions to enter a class and be aware that they will not get double credit for taking a class twice. Classes which are one (1) trimester are worth one-half (.5) credit toward graduation. Prerequisite means that a student must meet requirements in order to enroll in the class.

** All classes may not be available at all times due to scheduling conflicts.

****IF YOU WANT A COURSE THAT HAS A PREREQUISITE CHECKED NEXT TO IT, PLEASE SEE THE CURRICULUM GUIDE FOR THE PREREQUISITE NEEDED TO TAKE THE DESIRED COURSE.**

Business Department Curriculum

| Class Name | Credits | Prerequisites |
|---------------------------------|----------------|---|
| Computer 1 | .5 | None – Graduation Requirement |
| Adv Computer Applications | .5 | Successful completion of Computer 1 |
| Introduction to Business | .5 | None |
| Introduction to Accounting | .5 | Intro to Business recommended; can be used for senior math experience |
| Advertising & Marketing | .5 | Computer 1 & Intro to Business recommended |
| Business Law | .5 | Grade 10 & Intro to Business |
| Personal Finance | .5 | Grade 10-12; can be used for math credit/senior math experience |
| Work Based Learning* | .5+ | Teacher approval required |
| Sport & Entertainment Marketing | .5 | Intro to Business Recommended |
| Computer Programming | .5 | Grades 11 & 12; Computer 1 |
| Entrepreneurship 101 | .5 | Intro to Business & Bus teacher recommendation; Grades 11-12 |
| AP Computer Science | 1 | Computer Programming |
| AP Computer Science Principles | 1 | Algebra 1 |

| | |
|--|-------------------------|
| COURSE TITLE: | Computer 1 |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This is an introductory course that uses Microsoft Office as the primary software. It is designed to help students understand how to use Windows compatible computers with productivity software in performing real-world tasks. Students will develop skills necessary to operate word processing, database, spreadsheet, presentation, website design, and other integrated applications of Microsoft Office. The major outcomes of this class are:</p> <ul style="list-style-type: none"> ➤ To be able perform fundamental tasks using Windows, Microsoft Office and the Internet. ➤ To be able to solve specific problems using a computer and Microsoft Office. ➤ To be able to use Window terminology properly and use all of the tools of Microsoft Office in an integrated fashion. <p><i>**Mastering objectives of Computer 1 may allow students attending Grand Rapids Community College to earn college credit for CO101 and CO153. Students should discuss this opportunity with their instructor.</i></p> | |

| | |
|--|---------------------------------------|
| COURSE TITLE: | Advanced Computer Applications |
| PREREQUISITES: | Computer 1 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course will deal with advanced topics using computer applications. Students will be exposed to several new software applications including computer programming, website design, digital graphics, and desktop publishing. The major content areas are as follows:</p> <ul style="list-style-type: none"> ➤ Introduction to Java ➤ Introduction to HTML ➤ Introduction to Graphic Design using Adobe Photoshop Creative Suite | |

| | |
|--|---|
| COURSE TITLE: | Introduction to Business |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| REQUIRED TEXT: | <i>Introduction to Business</i> / Glencoe |
| <p>The Introduction to Business course is intended to be an introductory/exploratory course for students who are interested in learning the basic concepts, practices, and opportunities for a career in business. Although some may have already decided to pursue a business career, others may wish to know more about how business principles apply to non-profit and other types of organizations. Many may simply be interested in knowing how business principles apply in their daily lives. As an introductory course, the objectives are as follows:</p> <p>Provide an introduction to fundamental business concepts</p> <ul style="list-style-type: none"> ➤ Define key terms, concepts and theories related to managing a business. ➤ Develop a basic understanding of how business principles, practices, and processes apply to organizations. ➤ Develop an appreciation of the role and responsibilities of business in our society. ➤ Provide opportunities for students to explore different career paths available in today's society. ➤ Provide numerous interactive/hand-on activities to facilitate the learning process. | |

| | |
|--|--------------------------------------|
| COURSE TITLE: | Introduction to Accounting |
| PREREQUISITES: | None (Intro to Business recommended) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students will study the nature of accounting focusing on sole proprietorships. Skills are reinforced through real-world projects where students apply learned skills by completing accounting simulations. This course is appropriate for all students, and highly recommended for those considering majoring or minoring in a business field in college, or desiring to own a business. This course can be used for senior math credit. The major outcomes of this course are:</p> <ul style="list-style-type: none"> ➤ To learn skills of double-entry accounting which includes knowledge in computing, classifying, and recording numerical data to keep financial records. ➤ To learn the skills required to complete the accounting cycle for a sole proprietorship. ➤ To gain skills necessary for further education in accounting as well as any business field. ➤ To gain skills necessary for personal use to obtain an entry-level accounting position. Mastering objectives of accounting 1 could allow students attending Grand Rapids Community College to earn college credit for BA156. Students should discuss this opportunity with their instructor. | |

| | |
|--|--|
| COURSE TITLE: | Advertising & Marketing |
| PREREQUISITES: | None (Computer 1 and Introduction to Business recommended) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Marketing is one of the most interesting business subjects in the curriculum. We see examples of marketing all around us every day of our lives. This class is designed to apply marketing concepts to current trends in the real world. This course is a comprehensive overview of the marketing process and marketing strategies used in the global marketplace. Students will also learn the role of advertising in every level of business from small businesses to large corporations. This course is recommended for all students, particularly those considering a major or minor in business studies in college. The major outcomes of this course are:</p> <ul style="list-style-type: none"> ➤ Introduce students to the important role that marketing and advertising play in both profit and nonprofit corporations. ➤ Provide students with an understanding of the international aspects of marketing and how the world is moving towards a global economy. ➤ Introduce students to the various forms of promotion, including advertising, sales promotion, public relations, visual merchandising and publicity. ➤ To discover the multitude of career opportunities available in marketing and advertising. | |

| | |
|--|--------------------------------------|
| COURSE TITLE: | Business Law |
| PREREQUISITES: | Grade 10+ & Introduction to Business |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This is an introductory course that will cover the basic concepts of Business Law and the relationship between the legal system and businesses. Topics include: basics of law, contract law, law of sales and consumer law, and business organizations. This course is recommended for all students, particularly those considering majoring or minoring in a business field in college. The major outcomes of this course are:</p> <ul style="list-style-type: none"> ➤ To provide a practical understanding of law and the legal system that will be of use to students in their everyday lives. ➤ To improve understanding of the fundamental principles and values underlying our Constitution, laws, and legal system. ➤ To promote awareness of current issues and controversies relating to law and the legal system. ➤ To be an effective consumer and citizen by understanding contract and consumer laws. | |

| | |
|---|--|
| COURSE TITLE: | Personal Finance |
| PREREQUISITES: | 11/12 Grade (Grade 10 with counselor recommendation) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>The goal of this course is to introduce a student to personal finance through the topics of careers, paychecks, taxes, insurance, renting, owning, savings, compound interest, budgeting and banking, debit and credit. This course can be used as a senior math credit. The major outcomes of this course are:</p> <ul style="list-style-type: none"> ➤ For students to understand the overall costs, invested time, and salary potential involved in a certain job they choose as well as other possibilities. ➤ Provide students with an understanding of the numerous expenses for day to day living. ➤ Participate in a budget challenge. <p>This is a math course taught in the Business Department. Beginning with the Class of 2028, Personal Finance will be a graduation requirement.</p> | |

| | |
|---|---|
| COURSE TITLE: | Entrepreneurship 101 |
| PREREQUISITES: | Introduction to Business/Grades 11 and 12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This class is offered for juniors & seniors who have an interest in or an idea for starting their own business. In Entrepreneurship 101 students are introduced to the elements of successful business start-ups, myths and facts about entrepreneurship, and early product development. Entrepreneurship 101 will help incubate ideas along with encouraging students to follow through and start their own business.</p> | |

| | |
|--|--|
| COURSE TITLE: | Work Based Learning (WBL) |
| PREREQUISITES: | Counselor Recommendation, Teacher and Principal Approval. 11/12 Grade Students. |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Work Based Learning is designed to allow each student to explore a career path and gain work experience through release time from school. Teacher approval is required prior to enrolling in this course. The work site may be a paid or unpaid position. Time in class will cover work skills and safety issues unique to a younger workforce. Students will have required time sheets, employer evaluations, and an interview. Good attendance is a must. Students will have assignments along with required timesheets, employer evaluations, and an exit interview. Employers must have valid liability and disability insurance.</p> | |

| | |
|--|---|
| COURSE TITLE: | Sports & Entertainment Marketing |
| PREREQUISITES: | None (Introduction to Business recommended) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is designed to introduce students to one of the fastest growing industries in the world. Students will study the basic marketing concepts with applications to various entertainment organizations both locally and nationally. This course will include diverse aspects of this billion-dollar industry through concepts of sports management, legal issues, public relations, promotion, product marketing, and recreation.</p> | |

| | |
|---|---|
| COURSE TITLE: | Computer Programming |
| PREREQUISITES: | Successful completion of Computer 1; Grades 11 & 12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This is an introductory trimester class that covers fundamental concepts of structured programming and algorithmic problem solving: primitive data types, control structures, functions and parameter passing, top-down design, arrays, files and the mechanics of compiling, running, testing and debugging programs. These concepts will be taught using the high-level language Java. In addition, this class will focus on object-oriented program design and advanced algorithmic problem solving illustrated through Java. Extensive practice with designing and implementing object-oriented programs, especially using elementary data structures such as linked lists, stacks and queues. This course is a requirement for AP Computer Science.</p> | |

| | |
|---|----------------------------|
| COURSE TITLE: | AP Computer Science |
| PREREQUISITES: | Computer Programming |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>AP Computer Science is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. Students must have Programming or master the following concepts: Primitive Types, Using Objects, Boolean Expressions and If statements, Iteration and Writing Classes.</p> | |

| | |
|---|---------------------------------------|
| COURSE TITLE: | AP Computer Science Principles |
| PREREQUISITES: | Algebra 1 |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. This is a full-year course. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems including the internet work, explore their potential impacts and contribute to a computing culture that is collaborative and ethical. It is important to note that the AP Computer Science Principles course does not have a designated programming language. College Course Equivalent AP Computer Science Principles is equivalent to a first semester college level breadth course in computer science. Prerequisites: it is recommended that students in the AP Computer Science Principles course have successfully completed a first-year high school algebra course with a strong foundation of basic linear functions, composition of functions and problem-solving strategies that require multiple approaches and collaborative efforts. In addition, students should be able to use a Cartesian (x, y) coordinate system to represent points on a plane. It is important that students understand that any significant computer science course builds upon a foundation of mathematical reasoning that should be acquired before attempting such a course.</p> | |

ENGLISH DEPARTMENT CURRICULUM

English Graduation Requirements = 4 credits

| | |
|--|---|
| English 9 A/B - 1 credit | English 11 or AP English Language |
| English 10 A/B - 1 credit or Honors English 10 A/B - 1 credit | 4th Credit of English: English 12 and/or ELA Elective (.5 or 1)* <i>*College & Test Prep and Core Assistance count as GENERAL ELECTIVE credits and do NOT satisfy English Graduation Requirements.</i> |

COURSES

| Class | Credits | Trimesters |
|-------------------------------------|----------------|-------------------|
| English 9 | 1 | 2 |
| English 10 | 1 | 2 |
| Honors English 10 | 1 | 2 |
| English 11 | 1 | 2 |
| AP English Language/Composition | 1.5 | 3 |
| English 12 A | .5 | 1 |
| English 12 B | .5 | 1 |
| Senior Capstone | .5 | 1 |
| College English | .5 | 1 |
| AP English Literature & Composition | 1.5 | 3 |
| Intro To Creative Writing | .5 | 1 |
| Advanced Creative Writing | .5 | 1 |
| Literature & Film | .5 | 1 |
| Shakespeare | .5 | 1 |
| Speech | .5 | 1 |
| Media Literacy | .5 | 1 |
| Debate | .5 | 1 |
| College & Test Prep | .5 (Gen) | 1 |
| Core Assistance English 10 & 11* | .5 (Gen) | 1 |
| Yearbook | 1 or 1.5 | 2-3 |

***Teacher Recommendation**

LHS English Department Mission Statement

The LHS English Department is committed to instruction reflective of a college and career readiness pathway for all students. English courses are designed to meet the unique academic, intellectual, and practical needs for each grade level. Students are challenged to be critical thinkers, independent problem solvers, effective communicators, involved citizens, and reflective learners. Instructors build relevant connections between skills necessary for the future and appreciation for subject matter in the present. Students successfully accumulating 4 English credits will possess the 21st century literacy skills essential for an engaging and successful life after graduation from LHS.

| | |
|---|-------------------------|
| COURSE TITLE: | English 9A |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course introduces students to high school level expectations for academic reading, writing, researching, speaking, and listening. Students review basic grammar and literary elements. Students will read a variety of texts including articles, short stories, novels, and poems. Students implement research using the MLA format and work with the recognized components of a formal essay and the academic writing process. English 9A is a single term class and is required for enrollment into English 9B.</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | English 9B |
| PREREQUISITES: | English 9A |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is designed to build on the foundations established in English 9A. Students explore definitions and examples of quality writing for multiple purposes. Academic texts include a novel or memoir of literary merit, a Shakespearean drama, poems, short stories, and nonfiction articles. Grammar components emphasize knowledge and application of sentence types, comma rules, run-on sentences, and sentence fragments. English 9B is a single trimester class and is required for enrollment into English 10A.</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | English 10A |
| PREREQUISITES: | English 9 (A and B) |
| LENGTH: | 1 Trimester (.5 Credit) |
| <p>"In this course, students will be exploring various lessons related to reading, writing, and speaking. Students will read To Kill a Mockingbird and Of Mice and Men and explore the historical significance of these stories, characters, and themes. Students will broaden their awareness of words through multiple vocabulary experiences, and they'll extend their grammar awareness of sentence types and punctuation issues related to clause combination. Student writing will reflect quality summarization skills where claims are clearly constructed and adequately supported with evidence from a variety of sources. Students are expected to actively read all forms of text and grow in their self-awareness of questions, extensions, and connections while reading."</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | English 10B |
| PREREQUISITES: | English 10A |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>English 10B provides a survey of American literary movements: students will read poems, short stories, essays, and novels while recognizing their historical and cultural contexts. This course will build upon close reading strategies developed in English 10A as students analyze persuasive texts. Students will develop as writers by using the writing process to craft a persuasive essay. Emphasis will be placed on achieving individual reading and writing goals.</p> | |

| | |
|---|---------------------------|
| COURSE TITLE: | Honors English 10A |
| PREREQUISITES: | English 9 (A and B) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Honors English 10A is designed for students intent on challenging their skills as readers and writers and preparing for the most advanced English courses offered at the high school. Students will survey the scope of American Literature from the 17th Century to the mid-19th Century, exploring the period's defining movements, genres, and central themes. Honors students can expect to write more frequently, reflect more critically, and meet higher demands on the quality and quantity of work completed in and outside of class. They will craft narrative, informative, and argumentative writings; an intensive study of academic vocabulary, rigorous expectations for correct grammar and usage, and timed writings focused on rhetorical analysis will prepare them for future Advanced Placement English classes. Staples of the standard English 10 curriculum, including the research unit, the analysis of non-fiction texts, and the proper use of prepositions, subject-verb agreement, common usage, punctuation, and simple, compound, and complex sentences, are preserved and integrated into units expanded and enriched for students who will pursue studies dependent upon refined language skills and highly-effective written communication.</p> | |

| | |
|---|---------------------------|
| COURSE TITLE: | Honors English 10B |
| PREREQUISITES: | Honors English 10A |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Honors English 10B is designed for students who have successfully completed Honors English 10A and/or are preparing for the most advanced English courses offered at the high school. Students will survey the scope of American Literature from the mid-19th Century to the present, exploring the period's defining movements, genres, and central themes. Honors students can expect to write more frequently, reflect more critically, and meet higher demands on the quality and quantity of work completed in and outside of class. They will craft narrative, informative, and argumentative writings; an intensive study of academic vocabulary, rigorous expectations for correct grammar and usage, and timed writings focused on rhetorical analysis will prepare them for future Advanced Placement English classes. Staples of the standard English 10 curriculum, including <i>To Kill a Mockingbird</i> and <i>Of Mice and Men</i>, are preserved and integrated into units expanded and enriched for students who will pursue studies dependent upon refined language skills and highly-effective written communication.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | English 11A |
| PREREQUISITES: | English 10 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This trimester course consists of a focused application of previous skills. Students apply their understanding of rhetoric and study poetry, drama, essays, and novels. Students produce multiple analytic essays, narrative essays, and various independent/group projects and informal presentations. In addition, this course will emphasize advanced modes of composition and grammar, reinforcing the skills required by the SAT and the Common Core State Standards.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | English 11B |
| PREREQUISITES: | English 11A |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This trimester course consists of a focused application of previous skills. Students apply their understanding of rhetoric and study poetry, drama, essays, and novels. Students produce multiple analytic essays, reflective essays, a formal research paper, and various independent/group projects and informal presentations. In addition, this course will emphasize advanced modes of composition and grammar, reinforcing the skills required by the SAT and the Common Core State Standards.</p> | |

| | |
|---|---|
| COURSE TITLE: | AP English Language and Composition |
| PREREQUISITES: | English 10 A and B minimum (This course operates on an open enrollment philosophy; however, grades of B or better are highly recommended from either English 10 A/B or English 11 A/B). |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>AP Language is a 3-trimester study of nonfiction and fiction. It is similar to what most colleges offer as Freshman Composition but offers greater depth and breadth in reading selections and writing assignments. Students must complete required summer work prior to taking the course. Upon completing the Language and Composition Course, students should be able to:</p> <ul style="list-style-type: none"> ➤ Analyze and interpret samples of exemplary texts, identifying and explaining an author's use of rhetorical strategies and techniques. ➤ Apply effective strategies and techniques in their own texts. ➤ Create and sustain arguments based on readings, research, and/or personal experiences. Demonstrate understanding and mastery of standard written/spoken English as well as stylistic maturity in their own work. ➤ Write and/or speak in a variety of genres and contexts—both formal and informal—employing appropriate conventions. ➤ Produce expository and argumentative texts that introduce a complex central idea and develop it with appropriate, specific evidence, cogent explanations, and clear transitions. ➤ Move effectively through the stages of the text creation process with careful attention to inquiry and research, drafting, revising, editing, and review. | |

| | |
|---|---|
| COURSE TITLE: | English 12A |
| PREREQUISITES: | Successful Completion of English 9, 10, and 11. Grade 12 students <u>ONLY</u> . |
| LENGTH: | 1 Trimester <u>only</u> (.5 credit) |
| <p>In this course, students are immersed in strategies, scenarios, and experiences designed specifically to prepare them for life after high school. They construct professional documents, perform job shadows, and conduct multiple labs reflecting on life skills and decision making. In addition to focusing on their own self-awareness as it relates to aptitudes, interests, and skills, students will additionally explore the reality of the world they're preparing to enter with subjects ranging from education and economics to technology and leisure. Students are invited to expand their knowledge of careers and begin imagining how their formal education complements the traits most utilized in the world of work.</p> | |

| | |
|--|--|
| COURSE TITLE: | English 12B |
| PREREQUISITES: | Successful Completion of English 9, 10, and 11. Grade 12 student <u>ONLY</u> . |
| LENGTH: | 1 Trimester <u>only</u> (.5 credit) |
| <p>In this course, students explore the role stories play in capturing the emotions, experiences, and expectations of life. Stories are the frame that humans have used to understand what has happened, what is happening, and what may happen. Students will read a variety of genres and gain an appreciation for the methods writers use in telling their stories. Specifically, we will be using stories to gain a firmer understanding for the Holocaust and its aftermath. Students should leave the course with a life-long understanding of the role stories play in their lives.</p> | |

| | |
|--|--|
| COURSE TITLE: | Senior Capstone |
| PREREQUISITES: | Successful Completion of English 9, 10, and 11. Grade 12 students <u>ONLY</u> . Students must be able to leave the school grounds. |
| LENGTH: | 1 Trimester only (The 2nd Term of the senior year) (.5 credit) |
| <p>If you like to help others, this is the course for you! This course has been designed so that you will work with a small group (of your choice) to design and plan a project of your own choosing. Projects in the past have ranged from being simply informational in nature to building projects like bat houses for the Wittenbach Center to spending time with the elderly, helping the poor of local communities, and even alleviating the post-traumatic stress of children suffering from trauma. Project choices are up to each group. In the end, you will have the chance to actually implement your project.</p> | |

| | |
|--|---|
| COURSE TITLE: | College English |
| PREREQUISITES: | Grade 12 (a B- or higher in previous English courses is highly recommended although not required) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is designed for college-bound students who wish to take an advanced level class and can work independently on assignments. College-level short stories, plays, poetry, and novels will be read. All students will conduct research, practice their public speaking skills and produce various projects. This course focuses heavily on literary criticism and synthesizing literary works into current events as well as our personal lives. Emphasis will be placed on producing well-organized and comprehensive presentations, papers, and tests. Studies for the trimester will explore various themes associated with the human experience and/or current events. Past themes have included explorations in some of the following themes: Childhood, Family, Communication, Community, Cultural Diversity, Death/The Passing of Time, Relationships, Manners and Morals, Popular Culture, Human Behavior, Social Customs, War/Violence, Men and Women, and Work.</p> | |

| | |
|--|--|
| COURSE TITLE: | AP English Literature & Composition |
| PREREQUISITES: | English 11 or AP English Language |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. Students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences. Incoming students are assigned one novel for summer reading.</p> | |

| | |
|--|----------------------------------|
| COURSE TITLE: | Intro to Creative Writing |
| PREREQUISITES: | Grades 10-12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is designed as an introduction to creative writing through the creation of original poems, fiction, and nonfiction. Students will actively participate in the following class activities:</p> <ul style="list-style-type: none"> ➤ Keeping a daily writing journal ➤ Critiquing each other's work ➤ Completing various exercises designed to stimulate the imagination ➤ Sharing their writings weekly in a community forum (critique groups, public readings, class publications, etc.) ➤ Honing their writing skills (drafting, editing, revising, publishing) ➤ Forming a community of writers through collaboration ➤ Learning to be compassionate and critically engaged readers for one another's work ➤ Experiencing encouragement in the development of a personal voice ➤ Practicing writing like a reader ➤ Reading like a writer | |

| | |
|--|---|
| COURSE TITLE: | Advanced Creative Writing |
| PREREQUISITES: | Intro to Creative Writing (or special permission) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Advanced Creative Writing explores and expands on foundational concepts and skills taught in Intro to Creative Writing. This course challenges and improves student writing across a range of forms in poetry, fiction, and nonfiction and utilizes aspects of the writing process including generating ideas, writing and revising drafts, and editing. To support this work, students read and analyze professional excerpts from outstanding works of literature in order to investigate what can be accomplished on the page. Individuals will practice their literary craft independently with the support of an attentive group of peers and participate in candid, helpful critiques of their own work and that of their peers to hone advanced skills. Students will also continue to build community and appreciation for creating work through large group publishing/sharing which was established in the Intro to Creative Writing class. All writers will continue to develop their personal voice and further their practice writing like a reader and reading like a writer.</p> | |

| | |
|--|------------------------------|
| COURSE TITLE: | Literature & Film |
| PREREQUISITES: | English 10 B |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This class is a one-trimester course designed to analyze the literary devices used in both literature and cinema. Which is better – the book or the movie? Students will read classical and modern literature, comparing and contrasting the written word and the cinema version. The goal in this class is for students to learn how to evaluate plot, characterization, and literary devices while reading and viewing English expressions. In addition, students will develop a basic understanding of film construction, and use their knowledge of literature and film to write film critiques. This class will require consistent attendance as discussions, viewing, assignments, and analysis will all take place in the classroom.</p> | |

| | |
|--|--------------------------------|
| COURSE TITLE: | Shakespeare |
| PREREQUISITES: | English 10. Grades 11-12 only. |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course involves a closer study of Shakespeare’s work, including his sonnets and at least 4 of his plays. Activities are designed to prioritize active participation and collaboration while looking at a comedy, a tragedy, and a history play as well as a final, group selected play. Students will read and discuss the plays, stage scenes, and explore Shakespeare through his stories, characters, language, themes, and dramatic effects.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Speech |
| PREREQUISITES: | Grades 10-12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is designed to introduce the basic areas of interpersonal and rhetorical speech (public speaking) and discussion. Major presentations include a group discussion project, an informative speech, a persuasive speech, and an impromptu speech.</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Media Literacy |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Media Literacy is a one-trimester course designed to help you better understand the role of media in a democratic society and how we’ve progressed from a nation of pamphlets, books, and newspapers to one of podcasts, vlogs, and tweets. We’ll spend a great deal of our time studying social media’s influence on our daily lives, exploring what makes news sources reliable, and creating electronic media. By the end of the trimester you will have a better understanding of not only how the media works, but how to follow it with a critical eye.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Debate |
| PREREQUISITES: | English 9A & B |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>In this one trimester course students will gain an understanding of argumentation, especially as it relates to debating, and will research topics of current importance in great detail. Public Forum, Policy, Legislative, and Lincoln-Douglas debate will be covered as time permits. A high level of independence and the ability to research extensively using correct MLA formatting are essential for success in this class.</p> | |

| | |
|---|------------------------------|
| COURSE TITLE: | College and Test Prep |
| PREREQUISITES: | Grades 10-11 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>The key to the ultimate SAT score involves reading and comprehension, test familiarity, skill review, and timed practice. Unfortunately, many high school students don't have time to prepare for this test on their own. This class is designed to walk students through the SAT (reading, grammar, and math sections) and a bit of the ACT, utilizing various strategies and practice to help each individual feel prepared. In essence, we do the work in class that students should be doing at home if they really want to improve their standardized test scores (SAT, ACT, ASVAB). In addition, the class includes preparation for life after high school covering topics such as study strategies, college life, military life, trade schools, sleep, stress management, and the importance of independent reading and learning.</p> | |

| | |
|---|--|
| COURSE TITLE: | Core Assistance English A & B |
| PREREQUISITES: | Teacher recommendation, Principal approval, MAP & concurrently enrolled in English 10 or English 11. |
| LENGTH: | 1 trimester (.5 credit) |
| <p>Core assistance is designed for students who traditionally struggle with English classes but wish to succeed. Partnering with an English class (10A or 11A), Core works on re-teaching essential concepts from the daily English coursework and remediating crucial reading and writing skills. Additionally, students review and practice helpful study habits and life skills; weekly themes include: goal setting, organization, time management, self-advocacy, testing strategies, and addressing student strengths and weaknesses. The teacher and student partner weekly to reflect on progress, monitor grades, and set goals that will lead to student success.</p> | |

| | |
|--|---|
| COURSE TITLE: | Yearbook |
| PREREQUISITES: | Grades 10, 11 & 12, staff recommendation, application, teacher approval |
| LENGTH: | 2-3 Trimesters with teacher approval (1 or 1.5 credits) |
| <p>In this course students will be responsible for the design, construction, and publication of Lowell High School's annual yearbook. This production based course will develop skills in computer design, photography, writing, and project management. This class involves commitments both inside and outside of the school day. Successful students will be competent at multitasking, meeting deadlines, maintaining positive attendance, communicating, and collaborating.</p> | |

Visual and Fine Arts Department Curriculum

| Course Name | Credit | Prerequisites |
|------------------------|---------------|--|
| Art 1 | .5 | None |
| Art 2 | .5 | Art 1 |
| Drawing & Painting | .5 | Art 1 & Art 2 |
| Adv Drawing & Painting | .5 | Drawing & Painting & Art 2 |
| Ceramics 1 | .5 | Art 1 |
| Adv Ceramics 2 | .5 | Ceramics 1 with grade of B- or higher |
| Adv Ceramics 3 | .5 | Ceramics 2 with a grade of B- or higher |
| Studio Art | .5 | Art 1 & Art 2 |
| Photoshop/Computer Art | .5 | Art 1, Art 2 & Computer 1 (or equivalent computer knowledge) |
| Theatre | .5 | None |
| Acting & Directing | .5 | Theatre |

The Visual Art Department has remained current with trends in art careers, art related college programs, art knowledge, and technology. Our course offerings are highly diversified to allow students the opportunity to select art courses that will align with future education and career goals. Art courses are not for art majors only! The art area impacts many careers and areas of content and knowledge. Careers in business, technology, engineering, architecture, advertising, environmental design, psychology, education (especially elementary), physical and occupational therapy, journalism, packaging, and so on ... all benefit from art knowledge. Art training and background also add to a cultural knowledge that makes future experiences more valuable and interesting. All courses cannot be offered every trimester.

| | |
|---|-------------------------|
| COURSE TITLE: | Art 1 |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Art I is an introductory art course designed to teach the basic elements of art and design and to give students exposure to many art making processes. Students will have a great opportunity to experience a variety of materials, projects, concepts and techniques. Some of the topics covered in this class include:</p> <ul style="list-style-type: none"> ➤ Drawing ➤ Painting ➤ Watercolor ➤ Sculpture ➤ Composition ➤ Art History <p>This course is an excellent choice for students seeking foundational knowledge and skills in the art area. Each student's own creativity, self-expression and skills will be stressed throughout the semester. Students are encouraged to be successful in Art 1 because it is a prerequisite for other art courses.</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Art 2 |
| PREREQUISITES: | Art 1 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Art II course work is an advanced step from Art I with new emphasis placed on the Principles of Art and Design. Students will experience more advanced art techniques, materials, ideas and skills. Focus in this art class will include (but are not limited to):</p> <ul style="list-style-type: none"> ➤ Understanding the Elements of Art and how to apply them to new learning, the art principles ➤ Advancing individual creative expression ➤ Learning about and using more advanced media, such as drawing, printmaking, pastel, charcoal, acrylic, sculpture and more ➤ Creative composition <p>The tools, techniques and skills utilized in this class will be more complex than Art I. This class also provides great knowledge necessary for a wide scope of careers. Art 2 is a prerequisite for more advanced courses.</p> | |

| | |
|--|-------------------------------|
| COURSE TITLE: | Drawing & Painting |
| PREREQUISITES: | Art 2 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students will learn different methods and materials when drawing and painting in this course. Materials range from charcoal, ink, and colored pencil in drawing to watercolor, pastel, and oil paints in painting. Students will expand their creativity while learning how to use these higher- level materials.</p> | |

| | |
|---|----------------------------------|
| COURSE TITLE: | Adv. Drawing and Painting |
| PREREQUISITES: | Drawing and Painting |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students will develop personal artwork and themes on a higher and more independent level. This course is to create artwork worthy for a portfolio review for college-bound students. Students will continue to explore 2D art materials and processes while developing their own artistic vision and themes.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Ceramics I |
| PREREQUISITES: | Art 1 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Ceramics I is a hands-on course where students will have the opportunity to utilize the art elements they have learned in Art I and combine that knowledge with new information regarding a three-dimensional art form, clay. Emphasis will be placed on learning how to create projects using fired clay as a primary medium. Projects will include the three main hand building techniques including pinch pot work, coil, and slab building. Students will also experience a variety of glazing and finishing techniques.</p> | |

| | |
|--|---|
| COURSE TITLE: | Adv. Ceramics 2 |
| PREREQUISITES: | Ceramics 1 with a grade of B- or higher |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is a continuation from a successful Ceramics 1 experience. Students will be introduced to these topics:</p> <ul style="list-style-type: none"> ➤ More advanced methods of clay construction ➤ New types of clay and ceramic function ➤ New types of glazing, and complex project ideas. <p>The level of assignments will be more challenging, conceptual, and require strong construction and technical knowledge. Students will learn about other types of clay and firing processes. Additionally, students will have the opportunity to construct at least one piece of their own design.</p> | |

| | |
|--|--|
| COURSE TITLE: | Adv. Ceramics 3 |
| PREREQUISITES: | Serious ceramics students that have taken Ceramics 2 with a grade of B-or higher |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students with a serious interest in ceramics should enroll in this course. During the trimester students will expand their abilities in the creation of ceramic projects with advanced methods and a more independent approach. Projects most often will include complex hand building techniques with an emphasis on project creativity. Students will be encouraged to refine their skills on the potter's wheel. Each student will benefit by learning glaze mixing, kiln loading, and other firing processes.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Studio Art |
| PREREQUISITES: | Art 1 & Art 2 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course has an independent approach to art making where you will explore different art materials and processes. This is a great course to help you transition from structured art classes to becoming a working visual artist. You will test out a variety of materials and also create in depth projects in a subject of your choosing. You will also have the opportunity to create art to leave your mark in the school. Materials include, but are not limited to drawing, painting, sculpture, digital and mixed media.</p> | |

| | |
|---|---|
| COURSE TITLE: | Photoshop/Computer Art |
| PREREQUISITES: | Art 1, Art 2, Computer 1 (or equivalent computer knowledge) |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>In this class, students will develop a strong working knowledge of Photoshop software and then create art projects using Photoshop software, traditional drawing and painting techniques, and digital images as the art medium. During the trimester projects will include graphics, illustration and traditional art compositions. Computer art is an exciting art medium that can be used as an extension of personal creativity to create art. It is not a substitute for art but an art medium and technique</p> <p>MATERIALS/RESOURCES:</p> <ol style="list-style-type: none"> 1. Photoshop Classroom in a Book (Classroom sets only, so students will need to complete work during the class hour) 2. Adobe Photoshop 3. Extensive handout sheets 4. Class demonstrations and discussion. | |

| | |
|---|-------------------------|
| COURSE TITLE: | Theatre |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students will develop an understanding of theatre as a spectator and as a performer as well as develop acting talent and technique. Students will learn about the related arts and sciences in theatrical production. Theatre can be used as a fine arts requirement (VPAA) or as an elective course.</p> | |

| | |
|--|-------------------------------|
| COURSE TITLE: | Acting & Directing |
| PREREQUISITES: | Theatre |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This class focuses on performance both as a participant and director. Students will receive theatre experience on a more advanced level. Students are required to attend and/or participate in high school theatre productions.</p> | |

Music Department Curriculum

| Grade Level 9 – 12 | Credit | Trimesters |
|---------------------------|---------------|-------------------|
| Symphonic Band | 1 | 2 Trimesters |
| Concert Band | 1.5 | 3 Trimesters |
| Marching Band A | .5 | 1 Trimester |
| Jazz Band | .5 | 1 Trimester |
| Chamber Orchestra | 1.5 | 3 Trimesters |
| Concert Orchestra | 1.5 | 3 Trimesters |
| Symphony Orchestra | 1.5 | 3 Trimesters |
| Bella Voce Choir | 1.5 | 3 Trimesters |
| Concert Choir | 1.5 | 3 Trimesters |
| Music Appreciation | .5 | 1 Trimester |
| Intro to Music Technology | .5 | 1 Trimester |

| | |
|--|---|
| COURSE TITLE: | Symphonic Band |
| PREREQUISITES: | Previous band experience and director recommendation. |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>This is a concert group that performs at various concerts, festivals, and at graduation ceremonies. These are the more advanced musicians and the materials covered in the class reflect this. Emphasis is placed on aesthetic education through strengthening of individual performance and musicianship skills. Participation in smaller ensembles to solidify musicianship occurs during the appropriate season. Private lessons are strongly encouraged. This course focuses on developing individual performance proficiency and musicianship.</p> <p>MATERIALS: Various warm-up material and sheet music</p> | |

| | |
|--|----------------------------|
| COURSE TITLE: | Concert Band |
| PREREQUISITES: | Previous band experience. |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This is a concert group that performs at various concerts and festivals. Emphasis is placed on aesthetic education and performance skills. The course focuses on developing individual and group performance proficiency and overall musicianship. Private lessons are strongly encouraged.</p> <p>MATERIALS: Various warm-up materials and sheet music.</p> | |

| | |
|--|--|
| COURSE TITLE: | Marching Band |
| PREREQUISITES: | Previous band experience. Participate in summer Band Camp. |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This band is taught during the first trimester and students participate at the football games and other activities. Band camp is held for one week in the month of August, before school begins, and is a requirement for all students.</p> | |

| | |
|---|---------------------------|
| COURSE TITLE: | Jazz Band |
| PREREQUISITES: | Previous band experience. |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Jazz Band meets throughout the year for one trimester at a time, and is open to all students who show an interest in the study of instrumental jazz music. The basics of instrumental jazz music (history, improvisation, theory, literature) are taught throughout this course. Students in Jazz Band will participate in school, community, athletic, and district festivals and performances. Students are required to attend numerous performances throughout the year. Emphasis is placed on aesthetic education and performance skills as well as individual and group performance proficiency and musicianship. Trumpets, Trombones, Baritones, Saxophones, Bass Guitar, Guitar, Piano, and Drum Set are needed. Clarinets and Bass Clarinets are easily accommodated. Music is generally not written for other instruments, but accommodations can be made if the student is serious. Private lessons are highly recommended.</p> | |

| | |
|--|--|
| COURSE TITLE: | Chamber Orchestra |
| PREREQUISITES: | Previous experience and instructor approval (audition required). |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>Chamber orchestra is an elite performance-based course focused on developing individual technique and ensemble skills through learning stringed instrument repertoire. Grading will consist of individual progress on the instrument, study of music theory and history and performances completed both individually and as a class. School concerts and orchestra festival performances are required.</p> <p>MATERIALS: All students need their own violin, viola, cello or bass. School will supply various warm-up materials and sheet music.</p> | |

| | |
|---|---|
| COURSE TITLE: | Concert Orchestra |
| PREREQUISITES: | Previous orchestra experience and/or teacher approval |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>Concert orchestra is a performance-based course focused on developing individual technique and ensemble skills through learning stringed instrument repertoire. Grading will consist of individual progress on the instrument, study of music theory and history and performances completed both individually and as a class. School concerts and orchestra festival performances are required.</p> <p>MATERIALS: All students need their own violin, viola, cello or bass. School will supply various warm-up materials and sheet music.</p> | |

| | |
|--|--|
| COURSE TITLE: | Symphony Orchestra |
| PREREQUISITES: | Previous experience and instructor approval (audition required). |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>Symphony orchestra is an advanced performance-based course focused on developing individual technique and ensemble skills through learning string and full orchestra repertoire. Grading will consist of individual progress on the instrument, study of music theory and history and performances completed both individually and as a class. School concerts and orchestra festival performances are required.</p> <p>MATERIALS: All students need their own violin, viola, cello or bass. School will supply various warm-up materials and sheet music.</p> | |

| | |
|--|----------------------------|
| COURSE TITLE: | Bella Voce Choir |
| PREREQUISITES: | None |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>Bella Voce is a choir of treble voices from grades 9-12. Singers in this choir learn how to develop a healthy choral tone and improve musicianship. The Bella Voce performs a wide variety of music including classical "bel canto" music, madrigals, musical theatre, and multicultural music. Throughout the year, students will become proficient in music theory, ear-training, and sight-singing. We also work extensively on developing critical listening skills and working as a team. This ensemble performs about five times a year and also attends Choral Festival.</p> <p>MATERIALS: Music Folder, Notebook, Pencil, and Black Dress Shoes.</p> | |

| | |
|--|----------------------------|
| COURSE TITLE: | Concert Choir |
| PREREQUISITES: | None |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>Concert Choir is a choir of treble and bass voices from grades 9-12. Concert Choir students continue developing a vibrant and healthy choral tone, and perform a variety of music throughout the year including classical, pop, and musical theatre. Students will become proficient in music theory, sight-singing, ear training, and learn to work together as a team. Vocal production, musical expression, and critical listening skills are also stressed throughout this year-long course. This ensemble performs about five times a year and also attends the Choral Festival.</p> <p>MATERIALS: Long sleeve button-up white shirt, black dress pants, and black dress shoes (other uniform pieces and music will be provided).</p> | |

| | |
|---|---------------------------|
| COURSE TITLE: | Music Appreciation |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This trimester long non-performance music class is open to all students regardless of grade or participation in a performing music ensemble. Students will gain an appreciation of traditional western music through the study of music history, various musical forms and styles and important composers.</p> | |

| | |
|--|----------------------------|
| COURSE TITLE: | Intro to Music Tech |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>A non-performance music class that is open to all students who are serious about learning to make music online. This class introduces students to various web-based music technology applications including Digital Audio Workstations, MIDI interfaces, looping technologies, and notation software. No music background is necessary but an interest in computer-based music and music composition is required.</p> | |

Foreign Language Department Curriculum

| Class | Credits | Trimesters |
|--------------|----------------|-------------------|
| French 1 | 1 | 2 |
| French 2 | 1 | 2 |
| French 3 | 1 | 2 |
| French 4 | 1 | 2 |
| Spanish 1 | 1 | 2 |
| Spanish 2 | 1 | 2 |
| Spanish 3 | 1 | 2 |
| Spanish 4 | 1 | 2 |
| AP Spanish | 1.5 | 3 |

Foreign language instruction provides students with an opportunity to learn to communicate in another language, thereby giving them a second perspective on issues and an opportunity to explore, understand, and appreciate other cultures. Foreign language ability plus a person's professional or technical skill may give those with foreign language background an edge in the job market. It has been proven that foreign language learners perform better in English than non- second language students. Also, the self-concept of second-language students is significantly higher than that of non-second language students. Second language students have larger vocabularies and there is a positive correlation between the study of a foreign language and the creative functioning of learners.

| | |
|---|-------------------------|
| COURSE TITLE: | French 1 |
| PREREQUISITES: | None |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>This class introduces students to the beginning levels of French communication. Emphasis will be placed on French conversation, pronunciation, and basic French grammar rules, as well as the four areas of language development: listening, reading, writing, and speaking. Students will also have the opportunity to examine the cultures of French-speaking countries around the world through movies, slides, computer applications, songs, magazines, native speakers, and games.</p> <p>MATERIALS: Textbook - Bien Dit Level 1 Houghton Mifflin Harcourt</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | French 2 |
| PREREQUISITES: | French 1 |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>As a continuation of French 1, this class will focus on moving students from beginning level to intermediate levels of communication. It will continue to emphasize the four areas of language development: listening, reading, writing, and speaking. Class conversations will be conducted in both French and English, and students are expected to put forth their best effort in communicating in French. As a result, greater emphasis will be placed on critical thinking skills and problem solving. We will continue to use many sources (movies, games, songs, and slides) to promote a fun and creative learning environment.</p> <p>MATERIALS: Textbook - Bien Dit Level 2 Houghton Mifflin Harcourt</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | French 3 or 4 |
| PREREQUISITES: | French 2 or French 3 |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>French 3 and French 4 are classes designed for serious students who intend to continue the study of French at the university level, or to earn college credit through waiver options. This class will focus on moving students to intermediate and advanced levels of communication. It will continue to emphasize the four areas of language development: listening, reading, writing, and speaking. Class conversations will be conducted mostly in French. French 3 and French 4 activities include reading French novels and short stories, journal writing, newspaper article reviews, and individual and/or group projects. We will continue to use many sources (guest speakers, the internet, magazines, etc.) to promote a fun and creative learning environment.</p> <p>MATERIALS: Textbook - Bein Dit Level 2 & 3 Houghton Mifflin Harcourt</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Spanish 1 |
| PREREQUISITES: | None |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>Spanish 1 will acquaint students with the basics of the Spanish language through speaking, listening, reading and writing. Emphasis will be placed on Spanish conversation, pronunciation and on learning the basic grammar rules. Culture will also be experienced through class discussions, movies, songs, games and current events. Upon completion of Spanish 1 students will have a basic understanding of the Spanish language and an appreciation of the usefulness of foreign languages in the world around us. Students will also have attained insight into and an appreciation of the people and culture of Spanish-speaking countries.</p> <p>MATERIALS: Textbook - Avancemos Level 1 Houghton Mifflin Harcourt</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Spanish 2 |
| PREREQUISITES: | Spanish 1 |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>As a continuation of Spanish, Spanish 2 will stress speaking, listening, reading and writing skills. The course presents grammatical structures and vocabulary which is the base of the Spanish language. Short stories will be read and discussed. Geographical and cultural knowledge will be enhanced through geographical assignments, visitors, and current issues involving Spanish- speaking countries. Class conversations will be conducted in both Spanish and English, and students are expected to put forth their best effort in communication in Spanish. Upon completion of this course, students will have a solid understanding of the Spanish language and culture. The student will gain a greater appreciation of the usefulness of foreign languages, in the world around us, whether it be by communicating with Spanish-speaking people, while considering career opportunities, or preparing for travel abroad.</p> <p>MATERIALS: Textbook - Avancemos Level 2 Houghton Mifflin Harcourt</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Spanish 3 or 4 |
| PREREQUISITES: | Spanish 2 or 3 |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>Spanish 3 and Spanish 4 are designed to be taken by previously successful students of Spanish who wish to further enhance their Spanish language skills. The course presents all remaining grammatical structures and allows for students to practice these structures through reading, writing, listening, speaking, critical thinking and problem solving skills. Several short novels will be read and discussed. Geographical and cultural knowledge will be enhanced through visitors, Internet assignments, Spanish newspapers and Spanish magazines. Class conversations will be conducted in Spanish, except for grammar explanations. Upon completion of this course the learner will have a very strong foundation in Spanish to enable them to succeed at the university level, to earn college credit through waiver options, or live and work abroad in a Spanish-speaking country.</p> <p>MATERIALS: Textbook - Avancemos Level 3 Houghton Mifflin Harcourt</p> | |

| | |
|---|--|
| COURSE TITLE: | AP Spanish Language |
| PREREQUISITES: | Spanish 4 with a “B” average recommended |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>AP Spanish Language is a 3 trimester study of Spanish language, literature, and culture. It is designed for students who plan to pursue a course of Spanish studies at the collegiate level. Students are strongly encouraged but not required to take the AP Spanish Language Exam in May of the academic year. The class will include rigorous preparation in listening, speaking, reading and writing skills. Individual speaking and writing abilities will be graded frequently in preparation for higher level collegiate courses. Strong vocabulary and grammar knowledge will be enhanced with continuous practice. Students must complete required summer reading prior to taking the course. Upon completing the AP Spanish Language course, students should be able to:</p> <ul style="list-style-type: none"> ➤ Communicate clearly and effectively in Spanish in a wide range of situations. ➤ Understand and use accurately oral and written forms of the language. ➤ Understand and use a wide range of vocabulary. ➤ Express ideas with clarity and fluency. ➤ Demonstrate accuracy and variety in the use of spoken and written Spanish. ➤ Show an awareness of the cultures related to the Spanish language. | |

Math Department Curriculum

| Class | Credits | Trimesters |
|---|----------------|-------------------|
| Algebra | 1 | 2 |
| 3 Tri Algebra | 1.5 | 3 |
| Geometry | 1 | 2 |
| 3 Tri Geometry | 1.5 | 3 |
| Algebra 2 | 1.5 | 3 |
| Accelerated Algebra 2 | .5 | 1 |
| FST | 1 | 2 |
| AP Precalculus (General Precalculus Path) | 1 | 2 |
| AP Precalculus (Accelerated Alg. 2 Path) | 1 | 2 |
| AP Calculus AB | 1.5 | 3 |
| AP Calculus BC | 1.5 | 3 |
| AP Statistics | 1.5 | 3 |

| Math Flow/Progression | |
|--|--|
| 4-year College/University Prep <ul style="list-style-type: none"> ➤ Algebra ➤ Geometry ➤ Algebra 2 (3 Tri or Honors) ➤ FST or PreCalculus ➤ Advanced placement Course (Calculus AB or BC, Statistics or Precalculus) | Graduation/Career Path <ul style="list-style-type: none"> ➤ Algebra (3 Tri) ➤ Geometry (3 Tri) ➤ Algebra 2 Concepts (Does not meet NCAA Clearinghouse Requirements) ➤ Personal Finance/ Intro to Accounting |

| | |
|---|--|
| COURSE TITLE: | Algebra |
| PREREQUISITES: | Successful completion of Pre-Algebra or Algebra Essentials |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>This is a comprehensive course in Algebra with a concentration on realistic applications to enhance students' knowledge of mathematics. Topics include Linear Equations and Inequalities, Division and Proportions, Slopes and Lines, Exponential Equations, Powers and Roots, Quadratic Equations, Linear Systems, Polynomials and Factoring.</p> <p>MATERIALS: Graphing Calculator (TI-83 Plus or TI-84 Plus)</p> | |

| | |
|---|--|
| COURSE TITLE: | Algebra Essentials |
| PREREQUISITES: | Teacher recommendation and counselor approval. |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course focuses on preparing, practicing and mastering the skills needed to be successful in Algebra 1. Some of the math concepts and skills needed in preparation for Algebra 1 are listed below:</p> <ul style="list-style-type: none"> ➤ Fluency with basic math operations ➤ Understanding of fractions, percent's, and decimals and how they're related ➤ Ratio and Proportions ➤ Probability ➤ Integers, the number line, and integer operations <p>MATERIALS: Graphing Calculator</p> | |

| | |
|--|--|
| COURSE TITLE: | 3 Tri Algebra |
| PREREQUISITES: | Teacher recommendation and counselor approval. |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This is a comprehensive course in Algebra with a concentration of realistic applications to enhance students' knowledge of mathematics. Topics include Linear Equations and Inequalities, Division and Proportions, Slopes and Lines, Exponential Equations, Powers and Roots, Quadratic Equations, Linear Systems, Polynomials and Factoring.</p> <p>This course is intended to cover the same material as the general Algebra course in a longer format. (Three trimesters instead of two trimesters.)</p> <p>MATERIALS: Graphing Calculator (TI-83 Plus or TI-84 Plus)</p> | |

| | |
|--|---|
| COURSE TITLE: | Geometry |
| PREREQUISITES: | Successful completion of Algebra or equivalent C or higher in Algebra B (recommended) |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>This course uses coordinate and transformations throughout the course in both two and three dimensions. Algebra is integrated with geometry throughout the course. Students will master the use of formal proofs. Reading and problem-solving are also emphasized throughout the course.</p> <p>MATERIALS:</p> <ol style="list-style-type: none"> 1. Graphing Calculator 2. Compass 3. Protractor | |

| | |
|--|---|
| COURSE TITLE: | 3 Tri Geometry |
| PREREQUISITES: | Successful completion of Algebra or 3 Tri Algebra. Teacher recommendation and counselor approval based on Algebra and PSAT. |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>Description: This course uses coordinate and transformations throughout the course in both two and three dimensions. Algebra is integrated with geometry throughout the course. Students will learn the use of formal proofs. Reading and problem-solving are also emphasized. This course covers a majority of the concepts covered in the traditional Geometry course. Students taking this course will be reviewing critical Algebra concepts as part of the course curriculum.</p> <p>MATERIALS:</p> <ol style="list-style-type: none"> 1. Graphing Calculator 2. Protractor 3. Compass | |

| | |
|---|--|
| COURSE TITLE: | Geometry Applications |
| PREREQUISITES: | Successful completion of Algebra or equivalent. Teacher recommendation and counselor approval. |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>Geometry Applications is a class that is project based. It is intended to cover the same concepts as regular geometry through a practical applications approach. Students will have to demonstrate the concepts in an environment that uses shop tools and materials. The students must pass the safety tests on a variety of tools as well. This is not a textbook based class. Students are expected to achieve the standards of geometry in the shop with a focus on practical applications of the math. This class can be used as the prerequisite for Advanced Shop.</p> | |

| | |
|--|-----------------------------------|
| COURSE TITLE: | Algebra 2 |
| PREREQUISITES: | Successful completion of Geometry |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This course is a comprehensive study of Algebra, linear and quadratic equations and functions, rational expressions, irrational and complex numbers, geometry, exponential and logarithmic functions, sequences and series, and probability and statistics through real-life problems. *Algebra 2 can be retaken for credit during the senior year.</p> <p>MATERIALS: TI-83 Plus or TI-84 Plus calculator</p> | |

| | |
|---|--|
| COURSE TITLE: | Accelerated Algebra 2 |
| PREREQUISITES: | Successful completion of Geometry and teacher recommendation |
| LENGTH: | 1 Trimesters (.5 credit) |
| <p>This course covers the same content as the Algebra 2 course in an accelerated format to allow advanced math students the opportunity to move on to high levels of math.</p> <p>MATERIALS: TI-83 Plus or TI-84 Plus calculator</p> | |

| | |
|--|---|
| COURSE TITLE: | Algebra 2 Concepts |
| PREREQUISITES: | Successful completion of Algebra and Geometry Teacher recommendation based on Algebra and Geometry success as well as PSAT |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>This course is based on the Advanced Algebra course developed by UCSMP. It has a concentration in solving linear and quadratic equations algebraically and by graphing . Topics and chapters include: linear and quadratic equations, powers and roots, linear systems, polynomials and factoring. It is intended for students who need the Algebra 2 requirements for graduation and is only 2 trimesters. Students who take this course should take Accounting, Personal Finance or Functions, Statistics and Trigonometry (FST) for their senior year of math credit. The course focuses on the objectives necessary for success on the ACT/SAT tests for the state. This course covers the majority of the concepts covered in the traditional Algebra 2 course with less depth and at a slightly slower pace.</p> <p>MATERIALS: TI-83 Plus or TI-84 Plus calculator</p> | |

| | |
|--|---|
| COURSE TITLE: | Functions, Statistics and Trigonometry (FST) |
| PREREQUISITES: | Successful completion of Algebra 2 or Algebra 2 Concepts (with teacher recommendation). Grades 11 and 12 only. |
| LENGTH: | 2 trimesters (1 credit) |
| <p>FST provides materials for students to learn to display, describe, transform, and interpret numerical information in the form of data, graphs, and equations. Statistical concepts are integrated with graphical algebraic models through the use of the graphing calculator. Students are exposed to a wide range of models including linear, quadratic, higher-order, polynomial, exponential, logarithmic, and trigonometric functions. The trigonometry in this class includes the right triangle and unit circle definitions of the trigonometric functions and their applications.</p> <p>MATERIALS: TI-83 Plus or TI-84 Plus calculator</p> | |

| | |
|--|---------------------------------------|
| COURSE TITLE: | AP Precalculus - General Track |
| PREREQUISITES: | Successful completion of Algebra 2 |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>AP Pre-calculus will help better prepare students for calculus. This course integrates the background students must have to be successful in calculus (advanced work with functions and trigonometry, an introduction to limits, and other calculus ideas), with the discrete mathematics (number systems, combinatorics, recursion, and graphs) helpful in computer science. Mathematical thinking, including specific attention to formal logic and proof, is a theme throughout.</p> <p>MATERIALS: TI-83 Plus or TI-84 Plus calculator.</p> | |

| | |
|--|--|
| COURSE TITLE: | AP Precalculus - Accelerated Track |
| PREREQUISITES: | Successful completion of Accelerated Algebra 2 |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>AP Pre-calculus will help better prepare students for calculus. This course integrates the background students must have to be successful in calculus (advanced work with functions and trigonometry, an introduction to limits, and other calculus ideas), with the discrete mathematics (number systems, combinatorics, recursion, and graphs) helpful in computer science. Mathematical thinking, including specific attention to formal logic and proof, is a theme throughout.</p> <p>MATERIALS: TI-83 Plus or TI-84 Plus calculator.</p> | |

| | |
|--|--|
| COURSE TITLE: | AP Calculus AB |
| PREREQUISITES: | Successful completion of AP Precalculus & Teacher Recommendation |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This 3 trimester course is equivalent to one semester of college calculus. The goal of this course is to prepare students to take the Advanced Placement Calculus (AB) examination in May. A passing grade on this exam will award students college credit for this course. Students should expect to spend an average of one hour each night doing homework.</p> <p>MATERIALS: Graphics calculator (TI-84 is recommended)</p> | |

| | |
|--|--|
| COURSE TITLE: | AP Calculus BC |
| PREREQUISITES: | Successful completion of AP Precalculus and Teacher Recommendation |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This 3 trimester course is equivalent to two semesters of college calculus. The goal of this course is to prepare students to take the Advanced Placement Calculus (BC) examination in May. A passing grade on this exam will award students college credit for this course. Students should expect to spend an average of one hour each night doing homework.</p> <p>MATERIALS: Graphics calculator (TI-83, TI-84, or TI-84 Plus recommended)</p> | |

| | |
|--|--|
| COURSE TITLE: | AP Statistics |
| PREREQUISITES: | Successful completion of Algebra 2 (with teacher recommendation) or AP Precalculus |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This college-level course is an in-depth study of statistics for highly motivated students. Its purpose is to introduce students to the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. This course is recommended for all college-bound students.</p> <p>MATERIALS: TI-83 Plus or TI-84 Plus calculator</p> | |

Physical Education/Health Department Curriculum

| Class | Trimester | Credits | Prerequisite |
|---------------------------|------------------|----------------|------------------------------------|
| Physical Education Fall | 1 | .5 | None |
| Physical Education Winter | 1 | .5 | None |
| Physical Education Spring | 1 | .5 | None |
| Pilates & Aerobics | 1 | .5 | None |
| Healthy Lifestyles | 1 | .5 | None |
| Advanced PE | 1 | .5 | .5 PE (Fall, Winter, or Spring) |
| Body Mechanics Fall | 1 | .5 | None |
| Body Mechanics Winter | 1 | .5 | None |
| Body Mechanics Spring | 1 | .5 | None |
| Health Education | 1 | .5 | None |

**It is recommended that students have a doctor's physical before beginning Physical Education. Courses are designed to give an introduction to all phases of physical education as facilities, equipment, and personnel will permit. Units are two weeks offering a background of the sport, instruction, and practice in the basic skills, opportunities for competition and practical written examinations. Activities are offered on a co-educational basis.

- Lowell Area Schools requires one credit of PE to graduate.
- Students are encouraged to complete one trimester of the required PE Fall, Winter or Spring in the 9th or 10th grade.
- The other .5 credit may be earned from any other course offered by the Physical Education Department including Physical Education Fall, Winter or Spring.
- Students are eligible to take PE Fall, Winter and Spring only if they have less than 1 full credit of PE
- If all PE requirements are met, students may take any PE as an elective course.
- Students taking any PE elective a second time must have the approval of the instructor.
- Students may not repeat the same course to earn the one required PE credit.
- Students may not waive the Physical Education requirement by completing a season of the extracurricular sport.
- Students may waive the one credit PE requirement by taking marching band for 4 years.

| PE FALL | PE WINTER | PE SPRING | ADVANCED PE |
|-------------------------|-----------------------|--------------------|--------------------|
| Archery | Badminton | Weight Lifting | Floor Hockey |
| Tennis | Tumbling | Pickleball | Soccer |
| Golf | Basketball | Wiffle Ball | Volleyball |
| Air Force Football | Volleyball | Bowling | |
| Soccer | Floor Hockey | Track | |
| Speedball | | Softball | |
| OTHER PE CHOICES | | | |
| Body Mechanics Fall | Body Mechanics Spring | Pilates & Aerobics | Sports Officiating |
| Body Mechanics Winter | Advanced PE | Healthy Lifestyles | |

| | |
|--|--------------------------------|
| COURSE TITLE: | Physical Education Fall |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is offered in the first trimester. Tennis, golf, archery, Air Force football, soccer, speedball are sports that will be taught this trimester. Physical Fitness will be evaluated and students will be encouraged to improve their fitness level.</p> <p>MATERIALS: Clothes and shoes suitable for Physical Education.</p> | |

| | |
|--|----------------------------------|
| COURSE TITLE: | Physical Education Winter |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is offered in the second trimester. Volleyball, floor hockey, badminton, tumbling and basketball are sports that will be taught. Physical Fitness will be tested and evaluated. Students will be encouraged to improve their fitness level.</p> <p>MATERIALS: Clothes and shoes suitable for Physical Education.</p> | |

| | |
|---|----------------------------------|
| COURSE TITLE: | Physical Education Spring |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is offered in the third trimester. Weightlifting, pickleball, wiffleball, bowling, track and softball are sports that will be taught. Physical Fitness will be tested and evaluated. Students will be encouraged to improve their fitness level.</p> <p>MATERIALS: Clothes and shoes suitable for Physical Education.</p> | |

| | |
|--|-------------------------------|
| COURSE TITLE: | Pilates & Aerobics |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is for the student that wants to tone and strengthen their body. Emphasis will be on improving core strength, flexibility, body awareness and cardio fitness.</p> | |

| | |
|--|---------------------------|
| COURSE TITLE: | Healthy Lifestyles |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course promotes the idea that physical fitness can be fun as well as healthy. You don't have to train for the marathon or run the four-minute mile to qualify as fit. With simple guidelines for developing a personal fitness program students learn to become fit. Students will be encouraged to put on athletic shoes and hit the road! Classroom activities help students compare and evaluate fitness programs. Nutrition programs will be developed and components of a healthy diet will be translated into real food choices. Healthy lifestyles can help any health conscious student.</p> | |

| | |
|---|--|
| COURSE TITLE: | Advanced Physical Education |
| PREREQUISITES: | PE Fall, PE Winter <u>or</u> PE Spring |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course will change activities roughly every fifth class. The course is designed for the highly competitive student to compete within team and individual tournaments. The students will be expected to complete regular fitness testing throughout the trimester as well.</p> <p>MATERIALS: Clothes and shoes suitable for Physical Education.</p> | |

| | |
|---|--|
| COURSE TITLE: | Body Mechanics (Fall, Winter or Spring) |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is offered to students that enjoy weight lifting. The course work will include conditioning, weight training, flexibility, agility exercises and cardiovascular fitness. The class will incorporate all the various lifting routines done by the athletic teams at Lowell. This class will develop strength, endurance, and self-esteem.</p> <p>MATERIALS: Clothes and shoes suitable for Physical Education.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Health Education |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Health Education is a Lowell High School graduation requirement and is an overview of ourselves: physically, mentally, socially, and intellectually. The course covers basic health, nutrition, fitness, sexuality, smoking, alcohol, CPR, stress management and long and short range goals.</p> | |

Science Department Curriculum

Credits required for graduation: Biology (1 credit), Chemistry or Physics (1 credit) and 1 additional credit in science. It is the expectation at LHS that all students take a full year of Biology. Both Chemistry and Physics are also expected except in very limited situations where an alternate path to completing the Michigan Science Standards/Performance Expectations based on the student's individual Educational Develop Plan (EDP) is recommended by the Guidance Office and approved by the Administration.

| Science Class | # of Trimesters | Credit |
|----------------------------|-----------------|--------|
| Biology | 3 | 1.5 |
| *Agriscience Biology | 3 | 1.5 |
| A.P. Biology | 3 | 1.5 |
| Chemistry | 2 | 1 |
| Conceptual Chemistry | 2 | 1 |
| A.P. Chemistry | 3 | 1.5 |
| Physics | 2 | 1 |
| Conceptual Physics | 2 | 1 |
| A.P. Physics | 3 | 1.5 |
| Science Research | 1 | .5 |
| Astronomy | 1 | .5 |
| Forensic Science | 1 | .5 |
| Anatomy and Physiology A | 1 | .5 |
| Anatomy and Physiology B | 1 | .5 |
| *Animal Science | 1 | .5 |
| *Animal Science 2 | 1 | .5 |
| *Plant Science | 1 | .5 |
| *Natural Resources Ecology | 1 | .5 |
| *FFA Leadership | 1 | .5 |

*Denotes an Agriscience class. LHS students that earn 2 credits in the Agriscience Program (Agriscience Biology, Animal Science, Plant Science, Natural Resources Ecology and either Animal Science 2 or FFA Leadership) and earn the State FFA Degree are eligible for 6 credits towards a degree or certificate program at Michigan State University.

| | |
|--|----------------------------|
| COURSE TITLE: | Biology |
| PREREQUISITES: | None |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>Biology is the science of life. Students will gain an understanding of biological principles and concepts through labs and hands-on experiences. Major emphasis includes the scientific method, ecology and environmental problems, cell structures and functions, life processes of plants and animals, DNA, RNA, protein synthesis, human genetics, a survey of the five kingdoms, and a comparison of the systems of the human body with various animals.</p> <p>MATERIALS: Lab notebook with graphing paper, 3-ring binder, white board markers, post-it notes</p> | |

| | |
|---|--|
| COURSE TITLE: | Agriscience Biology (Agriscience Program) |
| PREREQUISITES: | None |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>In the Agriscience Biology course, students will gain an understanding of biological principles and concepts through labs and hands-on experiences with a focus on agriculture and natural resources. Major emphasis includes the scientific method, ecology and environmental problems, cell structures and functions, life processes of plants and animals, DNA, RNA, protein synthesis, genetics, a survey of the five kingdoms, and a comparison of the systems of the human body with various animals. Students in the agriscience biology course will also have the opportunity to develop leadership skills through participation in FFA activities. This course will fulfill the biology requirement for Lowell High School.</p> <p>MATERIALS: Lab notebook with graphing paper, 3-ring binder, white board markers, post-it notes.</p> | |

| | |
|--|--|
| COURSE TITLE: | AP Biology |
| PREREQUISITES: | Biology with a "B" or better recommended |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>AP Biology is a 3 trimester class which is based on biological concepts and eight major themes. It is designed to be the equivalent of a college introductory biology course taken by freshmen during their first year of college. The class involves three major areas: 25% genetics and evolution; 25% molecules and cells; and 50% organisms and population. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. Students will conduct 12 major labs, dealing with the three major areas. Students will be involved in group discussions, powerpoint presentations, and cooperative learning activities which will enable them to apply biological knowledge and use critical thinking skills. Students will have the opportunity to take the Biology AP exam. The AP Biology exam will emphasize concepts and themes of biology.</p> <p>MATERIALS: Calculator, 3-ring binder, chapter/course packets TEXTBOOK: Biology AP Edition</p> | |

| | |
|--|--------------------------------|
| COURSE TITLE: | Chemistry |
| PREREQUISITES: | Algebra 1 or equivalent course |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>Chemistry is the science dealing with the structure and composition of substances, the changes in their composition and the mechanisms by which these changes occur. The course will deal with concepts in the organization of chemistry, such as the atomic theory (structure and properties of atoms, compounds they form, and properties of these compounds), chemical formulas and equations, and phases of matter. The course then builds on these learned concepts as we investigate chemical reactions, stoichiometry, and specific topics such as physical and nuclear chemistry. Dynamic labs, demonstrations, and classroom discussions are used in the curriculum.</p> <p>MATERIALS: scientific calculator, 3-ring binder</p> | |

| | |
|--|--------------------------------|
| COURSE TITLE: | Conceptual Chemistry |
| PREREQUISITES: | Algebra 1 or equivalent course |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>Conceptual Chemistry is a course designed to balance the learning of chemistry concepts with the exposure to real life experiences and applications. This course focuses on the conceptual understanding of the laws and theories that govern the behavior of Matter with less mathematical requirements. This course meets all of the Michigan Science standards requirements for Chemistry credit.</p> <p>MATERIALS: Scientific calculator</p> | |

| | |
|--|--|
| COURSE TITLE: | AP Chemistry |
| PREREQUISITES: | Completion of Chemistry and Algebra 2 with a “B” average recommended |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>The A.P. Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students will attain a depth of understanding of fundamentals and a competence in dealing with chemical problems. The course will contribute to the development of students’ ability to think clearly and to express their ideas orally and in writing, with clarity and logic. Topics include atomic theory and atomic structure, chemical bonding, nuclear chemistry, states of matter, reaction types, equilibrium, kinetics, and thermodynamics. A full year of A.P. Chemistry allows students the option of taking the A.P. Exam. Successful completion of this exam allows students to undertake, as college freshman, second-year work in a chemistry sequence. For other students the A.P. course will create an opportunity for greater success in a freshman college chemistry class.</p> <p>MATERIALS: Scientific calculator, 3-ring binder, lab book, graph paper. TEXTBOOK: Chemistry-The Central Science</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Physics |
| PREREQUISITES: | Algebra & Geometry |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>Physics is the study of the relationship between energy and matter. Topics include mechanics, thermodynamics, sound, light, electricity, and nuclear energy. Physics is a laboratory course that uses the language of math to describe and model the physical behavior of the universe. Students will improve their analytical thinking skills and will gain a better understanding of mathematics through its application. Students who are planning any further education or career in a science related field, engineering, math, medicine, or who simply want to improve their ability to think analytically should take Physics.</p> <p>MATERIALS: Scientific calculator, 3-ring binder TEXTBOOK: <i>Modern Physics</i></p> | |

| | |
|---|---------------------------|
| COURSE TITLE: | Conceptual Physics |
| PREREQUISITES: | Algebra & Geometry |
| LENGTH: | 2 Trimesters (1 credit) |
| <p>This course introduces fundamental concepts of physics with emphasis on applications to the world around us. The course is concept oriented and does not make extensive use of mathematics. The course does satisfy the national science standards requirements. The course is intended to ensure understanding of the basic principles in physics.</p> <p>MATERIALS: Scientific calculator</p> | |

| | |
|---|----------------------------|
| COURSE TITLE: | AP Physics |
| PREREQUISITES: | AP Precalculus |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This course is equivalent to one semester of college Physics (Calculus based). The goal of this course is to prepare students to take the Advanced Placement Physics examination in May. A passing grade on the exam may award students college credit for this course. Students will explore concepts such as kinematics; Newton's laws of motion, work, energy and power; systems of particles and linear momentum; rotation; oscillations; and gravitation. Students will do hands-on laboratory work and in-class activities to investigate phenomena and use calculus to solve problems.</p> <p>MATERIALS: Graphing calculator</p> | |

| | |
|---|---------------------------------|
| COURSE TITLE: | Science Research |
| PREREQUISITES: | Chemistry, Grade 11, 12 |
| LENGTH: | 1-3 Trimesters (.5-1.5 credits) |
| <p>This course is an opportunity for highly self-motivated and dedicated students to learn real world science protocol using model organisms such as <i>C. elegans</i> which are microscopic worms. Students may perform experiments in collaboration with the VAI Neurodegenerative and Aging Disease lab and contribute to research on Parkinson's disease as well as maintaining model organisms such as <i>C. elegans</i>, zebrafish, daphnia or various plants for study. Students will incorporate previous Biology and Chemistry concepts to study authentic scientific investigation protocols. Next Generation Science Standards will be implemented throughout this course.</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Astronomy |
| PREREQUISITES: | Biology |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Areas of emphasis include scientific method, problem solving, measurement and other topics that are directly related to Astronomy and the Space. Students will explore topics such as: classical astronomy, gravity and motion, light and atoms, sun-earth-moon system, NASA, our solar system, meteors/asteroids/comets, our sun, properties of stars, stellar evolution, stellar remnants, our galaxy, cosmology, and the possible existence of life throughout the universe.</p> <p>MATERIALS: Scientific calculator TEXTBOOK: <i>Astronomy - A Beginner's Guide to the Universe</i> (Prentice Hall)</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Forensic Science |
| PREREQUISITES: | Biology |
| LENGTH: | 1 Trimester (.5 credit) |
| Forensic science is the application of science to the law. Students will investigate forensic science applications, including DNA technology used today in criminal investigations. This lab based course will include hands-on criminal case simulations and research. Labs include microscopy, hair and fiber analysis, blood spatter, fingerprinting, DNA analysis, impressions, and forensic anthropology. | |

| | |
|--|--|
| COURSE TITLE: | Anatomy & Physiology A/B |
| PREREQUISITES: | Biology. Chemistry recommended. It is recommended that you take both A & B courses sequentially, but not required. |
| LENGTH: | 1 Trimester (.5 credit) |
| This elective course is an in-depth study of human form and function. It is designed for students with an interest in the medical field and arranged to give a competitive edge for schooling after high school in all of the medical fields including nursing, veterinary medicine and various therapies. Anatomy and Physiology A focuses on anatomical terminology, cells and tissues, skin and integumentary system, skeletal, muscular and digestive systems. Anatomy and Physiology B focuses on nervous, cardiovascular, respiratory, urinary and reproductive systems and includes a detailed dissection of a cat. | |

| | |
|---|---|
| COURSE TITLE: | Animal Science (Agriscience Program) |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| Students will be introduced to the industry of agriculture and its scope and importance to each of us in a global society. Included will be an introduction of the FFA as part of the Agriscience Program. Students will learn about the origin, domestication, and classification of food production animals. Digestion, nutrition, care, and reproduction will all be covered through hands-on applications. Students will also be introduced to the meat industry and identify wholesale and retail cuts of beef, pork, lamb, and chicken. | |

| | |
|---|---|
| COURSE TITLE: | Animal Science 2 (Agriscience Program) |
| PREREQUISITES: | Animal Science |
| LENGTH: | 1 Trimester (.5 credit) |
| Students will use knowledge gained from Animal Science and supervised agricultural experience projects and build a better understanding of what it takes to raise and care for agricultural animals. Care and handling of the major farm animals and the characteristics of each will be covered. Students will be expected to help care for animals housed at the Wittenbach/Wege Center and conduct research on those animals. Live animal selection and evaluation will be supplemented by youth judging events. | |

| | |
|--|--|
| COURSE TITLE: | Plant Science (Agriscience Program) |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students will begin with a general discussion of plants and their relationship and importance to man. The greenhouse will be used for projects in germination, nutrient, and light experiments. Students will discuss the use of pesticides and their importance in agriculture (handling, application, and State and Federal regulations). Students will discuss the horticulture industry and its importance to our economy. Greenhouse projects will include asexual propagation of various species of plants. Students will explore the career opportunities available in the horticulture and plant science industries. Supplemental information, laboratories, and experiences will be taken from the Applied Biology/Chemistry resources of C.O.R.D. (Center for Occupational Research and Development).</p> | |

| | |
|---|--|
| COURSE TITLE: | Natural Resources Ecology (Agriscience Program) |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Natural Resources Ecology is a one trimester science class. The class is designed to provide students with a solid understanding of the ideas, concepts, principles, and connections in natural resources and ecology. The main areas covered will include Water, Soil, Forest, and Wildlife. Discussion will cover environmental problems and their causes, population dynamics, air and water pollution, models and systems of ecology, toxicology, human health, and global problems such as deforestation, loss of biodiversity, and global warming. This is a course that meets for many lessons outside.</p> | |

| | |
|--|---|
| COURSE TITLE: | FFA Leadership (Agriscience Program) |
| PREREQUISITES: | FFA Membership, Teacher Approval |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>FFA Membership is required for this course. In FFA Leadership students will develop leadership, teamwork, communication and record keeping skills through FFA Activities and competitions. Students will have access to on-line record keeping software through the Ag Experience Tracker in order to help prepare and submit FFA award applications. Communication and teamwork skills will be developed as students research and prepare for FFA leadership contests including Public Speaking, Demonstration, Parliamentary Procedure and Agricultural Issues.</p> | |

Social Studies Department Curriculum

| Class | # of Trimesters | Credit |
|------------------------|------------------------|---------------|
| World History A | 1 | .5 |
| Economics | 1 | .5 |
| US History A | 1 | .5 |
| US History B | 1 | .5 |
| AP US History | 3 | 1.5 |
| History vs. Hollywood | 1 | .5 |
| US Current Issues | 1 | .5 |
| Psychology | 1 | .5 |
| Child Psychology | 1 | .5 |
| World History B | 1 | .5 |
| American Government | 1 | .5 |
| AP Amer Gov & Politics | 3 | 1.5 |
| AP European History | 3 | 1.5 |
| AP Psychology | 3 | 1.5 |

| | |
|---|-------------------------|
| COURSE TITLE: | World History A |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>World History “A” examines some of the most momentous events in the Western World. Our focus of study will center on: the Renaissance, the Reformation, the Enlightenment & Scientific Revolution, the French Revolution finishing with the rise and fall of Napoleon Bonaparte. Accompanying these events will be the cause and lasting effects of how these events impact our world today. The causes and effects will be broken down specifically by political, economic and social impact.</p> <p>MATERIALS: Class notes, video and internet supplements, newspaper and magazine sources. TEXTBOOK: <i>World History Patterns of Civilization</i> (Prentice Hall)</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Economics |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course will teach students to understand how economies function and how to apply the concepts and principles of economics to their lives as individuals and citizens. Topics that will be covered in this course include; introductions to economics, economic systems, supply & demand, money and banking, globalization and international trade.</p> <p>TEXTBOOK: <i>Principles In Action</i> (Prentice Hall)</p> | |

| | |
|--|-----------------------------|
| COURSE TITLE: | U.S. History A |
| PREREQUISITES: | World History A & Economics |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course will provide an overview of early 20th century American History including the Progressive Movement, World War I, The Twenties, The Great Depression, The New Deal and the background to WWII and America's conclusion of WWII.</p> <p>MATERIALS: Teacher generated handouts, videotapes, library materials, and simulation/reenactments. TEXTBOOK: <i>America: Pathways to the Present</i> (Prentice Hall)</p> | |

| | |
|--|---|
| COURSE TITLE: | U.S. History B |
| PREREQUISITES: | World History A, Economics & US History A |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>US History B will give an overview of the major social, political, economic and foreign policy events in US history since 1945. This course will focus on the causes and effects of the Cold War on American foreign policy with respect to the Korean War and Vietnam War. This course will also focus on the Civil Right Movement, the age of conformity in the 1950's, the changing role of women in American society, the pendulum of political changes in the country since 1968 as well as the end of the Cold War and the causes and effects of the Persian Gulf War.</p> <p>MATERIALS: Teacher generated handouts, videotapes, library materials, and simulation/reenactments. TEXTBOOK: <i>America: Pathways to the Present</i> (Prentice Hall)</p> | |

| | |
|--|-----------------------------|
| COURSE TITLE: | AP U.S. History |
| PREREQUISITES: | World History A & Economics |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>This course is an accelerated comprehensive survey course which will prepare students to take the Advanced Placement Test in May. The course will focus on the following areas: Colonial America (Chesapeake vs New England), mercantilism and English law, revolution and the Articles of Confederation, political parties, Jacksonian democracy, slavery and the Civil War, industrialization and westward expansion, populism, American Indian removal, growth of cities and immigration, World War One, prosperity of the 20's, the depression, World War Two, and the Cold War.</p> <p>TEXTBOOK: <i>American History Connecting With the Past</i> (Alan Brinkley)</p> | |

| | |
|---|---|
| COURSE TITLE: | U.S. Current Issues |
| PREREQUISITES: | US History A, US History B or AP US History |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>US Current Issues is a study of events affecting Americans today. This course covers a variety of timely subjects in a structured setting and incorporates topics in current news. Historical background information and constitutional issues are used as a backdrop against the current happenings in our world. Students are expected to participate verbally and in written form, within a framework of respect and acceptance of alternate points of view.</p> <p>MATERIALS: internet supplements, newspapers, magazines, television, and the news TEXTBOOK: <i>Current Issues</i></p> | |

| | |
|---|---|
| COURSE TITLE: | History vs. Hollywood |
| PREREQUISITES: | US History A, US History B or AP US History |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>History vs. Hollywood is an examination of the accuracy of popular Hollywood historical films. The course will involve the study of significant historical events, and how those events are represented in the movies. History vs. Hollywood will teach the student to develop an understanding of the relationship between cinema (the movies) and American popular culture. The class will study seven to nine films throughout the trimester. The emphasis of the course is on research and developing critical thinking skills. The goal of History vs. Hollywood is to have students come away with a deep understanding of historical events that are represented in the selected films. All films are rated PG-13 or R. A SIGNED parental consent form, indicating parental approval, must be turned in before any of the films are viewed. You will come away from the class with a better understanding of these specific events in the films along with improved research skills. We will also begin the course by looking at film techniques used by directors and screenwriters and how and why they “Hollywood-ize” certain historical events in their films.</p> <p>MATERIALS: Teacher generated handouts, videotapes, library materials, and simulation/reenactments.</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Psychology |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Psychology is the study of human behavior. This course will explore scientific findings as they apply to topics such as perception, learning, personality, and abnormal behavior. The course will help students better understand the motivation behind their actions and the actions of others. Psychology should help students better understand and be empathetic to those who struggle with mental illness. This knowledge should help them be of assistance to those who might need help and support. The course requires a series of tests and one major paper.</p> <p>TEXTBOOK: <i>Understanding Psychology</i> (Glencoe)</p> | |

| | |
|---|-------------------------|
| COURSE TITLE: | Child Psychology |
| PREREQUISITES: | Grades 10-12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Child Psychology explores the development of children from the prenatal environment through adolescence. We will describe the expected developmental schedule for children and discuss parenting techniques to maximize this development. The course will also cover selected topics in psychology that apply to development such as learning, memory, intelligence, personality, and childhood disorders.</p> | |

| | |
|---|---|
| COURSE TITLE: | World History B |
| PREREQUISITES: | US History A, US History B or AP US History |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>World History B examines the major events of the modern era; the Enlightenment, French Revolution and Rise and Fall of Napoleon, the political, economic and social impact of Industrialization, aspiring 46 revolutions of the 19th century, Imperialism, nation building, Russian Revolution, the rise of Nazi Germany, World War II, and the Cold War. These events/people shape present ideas, perceptions and foreign relations.</p> <p>MATERIALS: video, internet supplements, newspaper, magazines TEXTBOOK: <i>World History Patterns of Civilization</i> (Prentice Hall)</p> | |

| | |
|--|--|
| COURSE TITLE: | American Government |
| PREREQUISITES: | World History B or AP European History |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course will examine the origins of our government, compare our government to others in the world, explore the issue of civil rights, study political parties and the political process, and review the purpose and structure of the three branches of government. It is hoped that through this class, students will gain an appreciation and understanding of our government so they may become active, interested, and involved citizens in the future. This course will bring our students into alignment with the standards recommended by the Michigan State Board of Education and covered on the M-STEP test.</p> <p>MATERIALS: Teacher and computer generated handouts, video, internet supplements TEXTBOOK: <i>United States Government - Democracy in Action</i></p> | |

| | |
|---|--|
| COURSE TITLE: | AP American Government & Politics |
| PREREQUISITES: | World History B or AP European History |
| LENGTH: | 3 Trimester (1.5 credits) |
| <p>In this program students will learn the principles and processes of government in general, and the (Federal) government in particular. The American political and economic systems and the people and institutions that facilitate those systems, are to be the broad focus of this course. This will be accomplished through intense reading, discussion, participation in simulations and decision making models along with writing. Intense focus will be on the Constitution, the Presidency, the Congress, the Courts, and the political and policy making process as it is used by the leaders in the Federal Government. This course is designed for college-bound students and the course content and structure is designed to enable students to attain college credit for their efforts through the Advanced Placement American Government Exam which is offered in May.</p> <p>MATERIALS: Textbook, supplements, and the internet resources.</p> | |

| | |
|--|---|
| COURSE TITLE: | AP European History |
| PREREQUISITES: | US History A, US History B or AP US History |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>In AP European History, students investigate significant events, individuals, developments and processes from approximately 1450 to the present. Topics in modern European History from the mid-15th century through the 21st century include the renaissance and age of exploration, the reformation, absolutism and constitutionalism, revolutions and reactions, industrialization and its effects, global conflicts of the 20th century and the cold war. Upon completion of the course, students may take the AP European History exam in May.</p> | |

| | |
|--|----------------------------|
| COURSE TITLE: | AP Psychology |
| PREREQUISITES: | Grade 11 & 12 |
| LENGTH: | 3 Trimesters (1.5 credits) |
| <p>The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.</p> | |

Technology Department Curriculum

| Class | # of Trimesters | Credits |
|--|---------------------------------------|----------------|
| Home Essentials Math Appl | 1 trimester | .5 |
| Adv Woods, Metal Math Appl & Building Trades | 1 trimester (can take more than once) | .5-1.5 |
| Engineering 1 | 1 trimester | .5 |
| Engineering 2/Guitar Building | 1 trimester | .5 |
| Architecture | 1 trimester | .5 |
| Digital Photography 1 | 1 trimester | .5 |
| Digital Photography 2 | 1 trimester | .5 |
| Red Arrow Report | 1-3 trimesters | .5-1.5 |
| Video Production | 1 trimester | .5 |
| Radio Broadcasting | 1 trimester | .5 |

| | |
|--|--|
| COURSE TITLE: | Home Essentials Math Applications |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This class will be the prerequisite to the Advanced Woods, Metal & Building Trades class. Students will learn and demonstrate applied mathematical skills in the day to day problems that arise in home ownership: decorating, do it yourself projects, and problem solving. This class will cover a variety of 'how to fix' issues including: project planning, cost analysis, research, and restoration. Students will learn how to use tools safely and effectively while accomplishing projects. The use of computers and industrial technology will be introduced. Pinterest, Google, Etsy, and other DIY websites will be used. The class will cover shop and home safety skills, tools, and project design skills. The student will demonstrate proficiency in: angle measuring, fraction manipulation, one, two, three and four dimensional measuring, and cost analysis. The progress of students will be monitored so that they will begin with fundamentals and progress to higher skill levels as they exhibit proficiency.</p> | |

| | |
|---|---|
| COURSE TITLE: | Adv. Woods, Metal Math Appl. & Building Trades |
| PREREQUISITES: | Home Essentials Math Applications |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This class will demonstrate problem solving strategies involving projects designed by the students or instructor. Students can choose to focus on several types of welding, woodworking techniques, and/or construction. These projects will demonstrate students' abilities to use math and science applications properly. The class will introduce industrial standards and practices used. Students in this class apply the skills and knowledge gained in the introductory course through various projects. Students collaborate with each other and the instructor to plan, troubleshoot, modify, and evaluate the effectiveness of their design, work, and outcome. By the end of the course, students have the independent capacity to understand the entire process of using tools and machines to construct something tangible. The class can be taken more than once, always advancing student's personal skills that they are interested in or want to try.</p> | |

| | |
|--|---|
| COURSE TITLE: | Architecture |
| PREREQUISITES: | Strong interest in architectural design |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This class introduces students to architectural design and interior design. Students learn the basics of residential architectural drawing and design. Students will use Chief Architect software to design and draw house plans. With this software students will draw three-dimensional houses that they can also do all of the interior design. Floor plans, elevations, detail drawings, and animated walk-throughs will also be created.</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Engineering 1 |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course introduces students to design software. Students will learn how to use AutoCAD to create two-dimensional drawings and then switch to three-dimensional drawings with Fusion 360. Students will have the opportunity to design a miniature golf course and tiny house. The course will finish with the fun and popular Lego project.</p> | |

| | |
|---|--------------------------------------|
| COURSE TITLE: | Engineering 2/Guitar Building |
| PREREQUISITES: | Engineering 1 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course builds on the skills and ability developed in Engineering 1. In this course students will design and build a real working electric guitar. Students will learn engineering, manufacturing and woodworking skills as they go through the process of building a guitar. Students will learn how to use CNC machining and specialized guitar building tools. STEM (science, technology, engineering, math) principles will be taught throughout the course. Students must have passed Engineering 1 before taking this course as we will be using CAD software during the course.</p> | |

| | |
|---|------------------------------|
| COURSE TITLE: | Digital Photography 1 |
| PREREQUISITES: | Grade 10, 11 or 12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This is an introductory course to digital photography. The course goal of Digital Photography 1 is to teach students the use of digital SLR cameras, principles of lighting and composition, and how to edit photos. Students will use Canon DSLR cameras to take photos during the class period. Then students will be able to edit their photos using Adobe Lightroom software. The course finishes with students putting their best work together into an electronic portfolio.</p> | |

| | |
|--|------------------------------|
| COURSE TITLE: | Digital Photography 2 |
| PREREQUISITES: | Digital Photography 1 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This class expands on the concepts taught in Digital Photography 1. In this class, students will learn how to use the manual settings on the DSLR cameras and advanced exposure techniques. Students will explore more areas of photography such as black and white and portrait techniques. The class finishes with students putting their best work together into an electronic portfolio and making a large print of their photos.</p> | |

| | |
|---|--|
| COURSE TITLE: | Red Arrow Report |
| PREREQUISITES: | Strong interest in working in a television studio, Teacher approval. |
| LENGTH: | 1- 3 Trimesters (.5-1.5 credits) |
| <p>Red Arrow Report allows students the opportunity to run a television studio. Building on the skills acquired in Video Production I, students will make projects to be aired over the Lowell Public Access Channel, and develop a school video news program. Students will manage and schedule programs to be shown on this channel in the Lowell area. Students will develop more advanced skills for camera techniques and editing. Students will also demonstrate advanced media literacy by critically viewing films and television programs. Students will be expected to videotape school-related events during and after school hours.</p> | |

| | |
|--|-------------------------|
| COURSE TITLE: | Video Production |
| PREREQUISITES: | Grade 10 - 12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students will learn the different aspects of video production, pre-production, production, and post-production. Students will use cellular cameras to create video projects. Students will be able to work in groups to create trailers for plays & musicals, commercials, interviews, public service announcements, and other projects. Students will use an approved editing software available on their cellular device, such as iMovie. This class will work closely with the Red Arrow Report to support their curriculum and projects. Students may be required to film at after school events.</p> <p>MATERIALS: Cellular device with camera & editing software application (iMovie, etc.)</p> | |

| | |
|--|---------------------------|
| COURSE TITLE: | Radio Broadcasting |
| PREREQUISITES: | None |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Radio Broadcasting is an introductory course that covers a wide range of skills and knowledge needed to supplement our FM radio station: WRWW-92.3FM. Material will also be covered from related subjects like audio production, broadcast writing and announcing to equip students to work in the field.</p> | |

Other Courses

| | |
|---|--------------------------------|
| COURSE TITLE: | Academic Communications |
| PREREQUISITES: | 9-12 |
| LENGTH: | 1-3 Trimester (.5-1.5 credit) |
| <p>Academic Communications is a class designed for students to apply research-based techniques to improve their ability to read, write, and perform other academic tasks. Students will receive support through pre-teaching, reteaching and practice of concepts introduced in student's scheduled classes. Students will have opportunities during these classes to clarify concepts and complete assignments. Students will also work on important academic communication skills, goals, and collaboration techniques.</p> | |

| | |
|--|---|
| COURSE TITLE: | LINKS |
| PREREQUISITES: | 11-12 with teacher and counselor recommendation |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>Students enrolled in the LINKS course will be a mentor, role model, and friend to fellow students. LINKS students will assist peers with appropriate classroom and social behavior, independence skills, job skills, and upholding duties dependent upon their role in the school Spirit Store.</p> | |

| | |
|---|---------------------------|
| COURSE TITLE: | Student Leadership |
| PREREQUISITES: | 10-12 |
| LENGTH: | 1 Trimester (.5 credit) |
| <p>This course is based on the belief that good leaders are developed not born. Student Leadership is designed to help students develop and practice lifelong leadership as well as personal and professional skills. We will examine various aspects of leadership and character. In addition, students will participate in team building activities and carry out Student Council responsibilities.</p> | |

Special Education Services

A variety of services are offered at Lowell High School to meet the needs of students that qualify for special education support. Listed below are descriptions of the services provided to students that have an Individual Education Plan (IEP).

Teacher Consultant

Teacher consultant services are provided for students who are enrolled in general education classes only and require only minimal academic supports. The teacher consultant meets with the students to address their academic needs and monitor progress.

Content Area Support

Each curricular area has a special education teacher assigned to support the special education students in that subject matter. These consultants provide support through a “drop in” model allowing students to attend their general education classes and visit the resource room as needed for specific reteaching and support. We also offer departmental classes in Math for those students who require more intensive instruction. These classes are designed to provide instruction for students that have disabilities in these content areas and need more intensive support to develop mastery of the grade-level content.

Academic Support Courses

Academic Support is a class designed for students to apply research-based techniques to improve student’s ability to read, write, and perform other academic tasks. Students will receive support through pre-teaching, reteaching and practice of concepts introduced in student’s general education classes. Students will have opportunities during these classes to clarify concepts and complete assignments with support from special education teachers. Students will also receive direction and practice in specially designed instruction specific to each student's Individualized Education Plan.

Resource Math

Classes in the Resource Room are for remedial and specialized instruction. These courses are offered to students with IEPs based on specific academic and transition IEP goals. Students receive support through individualized lessons and assessments.

Mild Cognitive Impairment Program

The MICI classroom is designed to meet the educational needs of special education students who need a high level of support to participate in the school setting, beyond what is available in the general education setting. The curriculum focuses on school and community-based instruction to support students' diverse needs, including vocational instruction, language, social interactions, leisure activities, and daily living skills. Academic skills are taught based on individual needs and abilities. Students are placed in the MICI classroom through the IEP team decision making process.

NCAA Eligibility

If you have questions about NCAA Eligibility, go to their website at www.ncaa.clearinghouse.net. It is also important to let your assigned counselor know as early as possible if you are interested in continuing your athletic career at the college level and, especially if you would like to compete at the NCAA Division I or II levels.

To be eligible for participation at the NCAA Division I or II level, students must be certified by the NCAA Initial Eligibility Center which requires the student to submit a Release Form, transcript, test scores, and the NCAA Eligibility Center filing fee. Students must successfully complete 16 approved core courses including:

- English: 4 credits
- Math: 3 credits (MUST include Algebra 2)
- Science: 2 credits (MUST include 1 lab based course)
- Additional English, math, or science: 1 credit
- Social Studies: 2 credits
- Additional NCAA Approved Courses: 4 credits

Students must also meet the NCAA grade point average and ACT/SAT score requirements.

NOTES: Courses taken prior to high school are not accepted by the NCAA as core courses. Course taken as credit (CR)/no credit (NC) are assigned the lowest passing grade by the NCAA for the purpose of calculating the qualifying GPA. Online courses taken through our Virtual Academy and most outside providers are NOT accepted as core courses by the NCAA.

For more information, visit the NCAA Eligibility Center's *Want to Play College Sports* page at <https://www.ncaa.org/sports/2021/2/8/student-athletes-future.aspx>.

Students and parents interested in college athletics should also review the [NCAA Eligibility Center's Guide for the College Bound Student-Athlete \(click here\)](#).

NCAA Initial-Eligibility Center Certification Processing

PO Box 7136

Indianapolis, IN, 46207

1-877-262-1492

