

Student Services Center

Students are encouraged to visit the Student Services Center for help related to personal, social or academic issues. The Student Services Center also provides assistance with educational program planning, test interpretation, vocational and college planning, and scholarship searches. Many college and career booklets, software, pamphlets, and catalogs are available. Students are encouraged to take full advantage of all the opportunities within the Center.

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

RJ Boudro A – G
Tory Parsons H – P
Nicole Deckrow Q – Z

Additional services are provided through the following professionals:

School Psychologist, Melanie Hook
Social Worker, Sheri Woolery
Speech Therapist, Bob Taber
Teacher Consultant, Heather Sneider

GRADUATION REQUIREMENTS

Math = 4 credits (8 courses)

- Algebra A+B
- Geometry A+B
- Algebra 2 A+B+C
- 4th Credit (2 trimesters) taken senior year

English = 4 credits (8 courses)

- English 9 A+B
- English 10 A+B
- English 11 A+B or A.P. English Language
- 4th Credit (2 trimesters) of English

Foreign Language = 2 credits (4 courses for class of 2016 & 2017)

- 2 years of a foreign language is strongly recommended for college bound students also (many schools now require this)

Science = 3 credits (6 courses)

- Intro to Chemistry
- Intro to Physics
- Biology A+B+C
- 3rd Credit (2 trimesters) Science

Social Studies = 3 credits (6 courses)

- Economics
- World History A
- US History A+B or (AP US History)
- World History B or (AP European History)
- Government

Electives

- 0.5 Credit (1 Course) - Computer 1
- 0.5 Credit (1 Course) - Health
- 1.0 Credit (2 Courses) - Fine Arts
- 1.0 Credit (2 Courses) – Physical Education **OR** 4 Years of Marching Band

REQUIRED CREDITS FOR GRADUATION 2014-2015 REQUIRED CREDITS FOR GRADUATION 2016 & 2017

TOTAL REQUIRED CREDITS	17	19
ELECTIVE CREDITS	11	9
GRADUATION - REQUIRED CREDITS	28	28

- **Students who take four years of marching band may waive the one-year physical education requirement.**
- 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.
- Foreign exchange students **do not** graduate from LHS, nor are they ranked with their class.
- 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.
- It is the responsibility of the students to make sure that they enroll in and pass all required classes to meet graduation requirements.
- Graduation from Lowell High School implies that students have satisfactorily completed an approved course of study and the Michigan Merit Curriculum. They have also satisfactorily passed any examinations and/or other requirements established by the school district.
- To receive a LHS diploma, students must be attending full time for one year prior to graduation.
- 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.
- 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 permission of the high school principal or counselor in order to be considered for high school credit.

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 GPA and earned credits which appear on the student transcript.

Course Selection

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

Class Changes

Students must make careful choices when filling out registration materials. If a course must be changed after registration materials have been turned in, students should contact the Student Services Center. Once the school year begins, students' schedules become final.

It is the policy of Lowell High School that students stay in the course 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.

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 Student Services Center. Students will need to fill out a *change form* from the Student Services Center. 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 students wish to take a course but have 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.

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.

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.

“Outside” Credits

Students may earn outside credits in summer school, night school or online courses. Students taking outside credits need to have **pre-approval** from their counselor.

Class Ranking

Cumulative grade point average (GPA) is the means by which students are ranked academically in their graduating class. 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 the 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.

Transcripts

Transcripts can be requested on the LHS website, www.lowellschools.com, through a program called **Parchment** which send transcripts electronically. Transcript information includes all courses taken, grades received, cumulative grade average and rank-in-class. The LHS Profile is printed on the back of the transcripts.

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:

AP US History
AP European History
AP Calculus AB & BC
AP Chemistry
AP Physics
AP Psychology

AP American Government & Politics
AP English Literature
AP English Language/Composition
AP Biology
AP Statistics
AP Spanish Language

Grading Procedures

Regular Grading System

A	=	4.000
A-	=	3.667
B+	=	3.333
B	=	3.000
B-	=	2.667
C+	=	2.333
C	=	2.000
C-	=	1.667
D+	=	1.333
D	=	1.000
D-	=	0.667
E	=	0.000

AP Grading System

A	=	5.000
A-	=	4.667
B+	=	4.333
B	=	4.000
B-	=	3.667
C+	=	3.333
C	=	3.000
C-	=	2.667
D+	=	2.333
D	=	2.000
D-	=	1.667
E	=	0.000

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 123, 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.

*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.

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, and have passed the Michigan Merit Exam. Interested students should see their counselor well in advance of the semester in which they plan to enroll; April for Fall enrollment, and October for Winter enrollment. Students who wish to qualify for dual enrollment in their Junior year must receive qualifying scores on either the PLAN or the PSAT.

Articulation:

Lowell High School participates in articulation programs with local colleges who grant college credits to high school graduates who have mastered specific job skills. These college credits can be applied to a two-year associate degree or one-year certificate program.

Kent Career/Technical Center:

The Kent Career/Technical Center, located at 1655 East Beltline, N.E, Grand Rapids, offers training in over 30 skill areas to juniors and seniors. 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 KC/TC will be available for 1st and 2nd sessions. Students who wish to attend the Kent Career/Technical Center must complete the KC/TC application available in the Student Services Center. Students must arrange a required internship visit to KC/TC before they register for a course and it is essential that these arrangements be made early in second semester. KC/TC's openings are filled county wide on a first come, first serve basis.

KC/TC course offerings are:

Arts & Communications Pathway

- Graphic Design/Production / 3D Animation

Business, Management, Marketing, & Technology Pathway

- Accounting Systems & Solutions
- Marketing: Retail and Management
- Information Technologies
- Accounting On-line

Engineering/Manufacturing & Industrial Technology Pathway

- Heating, Ventilation, Air Conditioning and Refrigeration (HVACR)
- Precision Machining Technology
- Engineering CAD/Site Design
- Auto Collision Repair
- Automotive Technology
- Diesel and Equipment Technology
- Aviation Maintenance Technology
- Avionics – Aircraft Electronics Technology
- Applied Construction Technology
- Electronics/Electrical Trades

Health Sciences Pathway

- Health Careers
- Health Sciences Early College Academy

Human Services Pathway

- Hospitality, Culinary
- Criminal Justice

Natural Resources & Agriscience Pathway

- Agriscience
- Environmental Sustainability

NCAA ELIGIBILITY REQUIREMENTS

NCAA eligibility Regulations

The NCAA Initial-Eligibility Clearinghouse is an organization that works with the NCAA to determine a student’s eligibility for athletic participation in his or her first year of college enrollment. Students who want to participate in college sports at a Division I or II school during their first year of enrollment must register with the clearinghouse.

Students must complete the “Student Release Form” online at www.ncaaclearinghouse.net

and submit it with payment to the clearinghouse. Information is available in the Lowell Student Services Center and the Athletic Office.

DIVISION I CORE GPA & TEST SCORE SLIDING SCALE

CORE GPA	ACT SUM	SAT SUM	CORE GPA	ACT SUM	SAT SUM	CORE GPA	ACT SUM	SAT SUM
3.550 & above	37	400	3.025	51	610	2.500	68	820
3.525	38	410	3.000	52	620	2.475	69	830
3.500	39	420	2.975	52	630	2.450	70	840-850
3.475	40	430	2.950	53	640	2.425	70	860
3.450	41	440	2.925	53	650	2.400	71	860
3.425	41	450	2.900	54	660	2.375	72	870
3.400	42	460	2.875	55	670	2.350	73	880
3.375	42	470	2.850	56	680	2.325	74	890
3.350	43	480	2.825	56	690	2.300	75	900
3.325	44	490	2.800	57	700	2.275	76	910
3.300	44	500	2.775	58	710	2.250	77	920
3.275	45	510	2.750	59	720	2.225	78	930
3.250	46	520	2.725	59	730	2.200	79	940
3.225	46	530	2.700	60	730	2.175	80	950
3.200	47	540	2.675	61	740-750	2.150	80	960
3.175	47	550	2.650	62	760	2.125	81	960
3.150	48	560	2.625	63	770	2.100	82	970
3.125	49	570	2.600	64	780	2.075	83	980
3.100	49	580	2.575	65	790	2.050	84	990
3.075	50	590	2.550	66	800	2.025	85	1000
3.050	50	600	2.525	67	810	2.000	86	1010

If you have questions about the certification process or the status of your certification documents, you can contact

NCAA Initial-Eligibility Clearinghouse.
NCAA Initial-Eligibility Clearinghouse
www.ncaaclearinghouse.net
301 Act Drive
PO Box 4043
Iowa City, IA 52243-4043
 (319) 337-1492 1-877-262-1492

Lowell High School NCAA Approved Core Courses and qualifying test scores
Please see your counselor regarding the selection of classes approved by the NCAA

Sample 4-Year Plan

9th Grade

English 9A	English 9B	
Algebra	Algebra	
Word History A	Economics	
Intro to Physics	Intro to Chemistry	
Foreign Language	Foreign Language	

10th Grade

English 10A	English 10B	
Geometry B	Geometry B	
US History A	US History B	
Biology A	Biology B	Biology C
Foreign Language	Foreign Language	

11th grade

English 11A	English 11B	
Algebra 2A	Algebra 2B	Algebra 2C
World History B		
Science Course*	Science Course*	

12th grade

English Course**	English Course**	
Math Course***	Math Course***	
Government		

Additional courses needed for graduation (add in):

2 Physical Education Courses
 2 Fine Art Courses
 Health
 Computer 1

*Science Course Options: Options are listed on the back under science and agri-science. **Note: College bound students are strongly encouraged to take College Prep Chemistry A, B or College Prep Hrs Chemistry A & B.**

** English Course Options: A 4th credit (2 classes) of English is required to graduate from LHS. Classes to fulfill this option would be:

A.P. English Literature.
 College English A,B,C
 English 12 (Senior English) A, B

Or English Electives: Speech, Debate, Intro to Creative Writing, Literature & Film, Shakespeare, Capstone Project or The 3rd trimester of A.P. English Language & Composition would counts as 1 of the classes.

*** Math Course Options: 1.0 credit (2 classes) of math must be taken during the senior year. Course Options include:

Algebra 2 A,B,C
 FST, A,B
 Pre-Calc A,B
 College Algebra Foundations
 AP Calculus AB or BC (3 trimesters)
 AP Statistics (3 trimesters)
 Personal Finance
 Intro to Accounting
 Accounting II

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.

Course Listing By Category (Each trimester equals 0.5 credit.)

<u>COURSE NAME</u>	<u># OF TRI'S</u>	<u>Prerequisite is needed For this course</u>	<u>COURSE NAME</u>	<u># OF TRI'S</u>	<u>Prerequisite is needed for this course</u>	<u>COURSE NAME</u>	<u># OF TRI'S</u>	<u>Prerequisite is needed for this course</u>	<u>COURSE NAME</u>	<u># OF TRI'S</u>	<u>Prerequisite is needed for this course</u>
BUSINESS			AP Eng Lit & Comp	3 TRI	X	MATHEMATICS			Plant Science	1 TRI	
Computer 1	1 TRI		College & Test Prep	1 TRI	X	Algebra	2 TRI		Natural Resources	1 TRI	X
Computer 2	1 TRI	X	Reading For Life	1 TRI	X	Geometry	2 TRI	X	Landscape Horticulture	1 TRI	X
Intro to Business	1 TRI		Eng Core Assist A & B	1/2Tri	X	Algebra 2/Hr Algebra 2	2&3 TRI	X	SOCIAL STUDIES		
Intro to Accounting	1 TRI		FINE/PERFORM ARTS			Accelerated Precalculus	1 TRI	X	World History A	1 TRI	
Accounting II	1 TRI	X	Art 1	1 TRI		FST	2 TRI	X	Economics	1 TRI	
Advertising/Marketing	1 TRI	X	Art 2	1 TRI	X	Precalculus	2 TRI	X	US History A	1 TRI	X
Business Law	1 TRI	X	Drawing	1 TRI	X	College Algebra Found	1 TRI	X	US History B	1 TRI	X
Personal Finance	1 TRI	X	Painting	1 TRI	X	AP Statistics	3 TRI	X	AP US History	3 TRI	X
Spirit Store	1 TRI	X	Adv Drawing & Paint	1 TRI	X	AP Calculus AB	3 TRI	X	Hist & American Culture	1 TRI	X
School to Work (2 periods)	All TRI	X	Ceramics 1	1 TRI	X	AP Calculus BC	3 TRI	X	US Current Issues	1 TRI	X
Sport/Enter Marketing	1 TRI	X	Adv Ceramics 2	1 TRI	X	PHYS ED/HEALTH			Psychology	1 TRI	
Career Intern (2 periods)	1 TRI	X	Adv Ceramics 3	1 TRI	X	Phys Ed Fall	1 TRI		Child Psychology	1 TRI	X
Computer Programming	1 TRI	X	Sculpture	1 TRI	X	Phys Ed Winter	1 TRI		World History B	1 TRI	X
Entrepreneurship 101	1 TRI	X	Photography 1	1 TRI	X	Phys Ed Spring	1 TRI		American Government	1 TRI	X
Flash Animat & Game Dev	1 TRI	X	Photography 2	1 TRI	X	Pilates & Aerobics	1 TRI		AP Amer Govt & Politics	3 TRI	X
Website Develop & Design	1 TRI	X	Digital Imaging	1 TRI	X	Healthy Lifestyles	1 TRI		AP European History	3 TRI	X
Human Resources	1 TRI	X	Drama	1 TRI		Adv PE	1 TRI	X	AP Psychology	3 TRI	X
Annual	2&3 TRI	X	Acting & Directing	1 TRI	X	Body Mechanics Fall	1 TRI		TECHNOLOGY		
ENGLISH			Symphonic Band	2 TRI	X	Body Mechanics Winter	1 TRI		Basic Shop Math Appl	1 TRI	
English 9	2 TRI		Concert Band	3 TRI	X	Body Mechanics Spring	1 TRI		Woodworking Math Appl	1 TRI	X
Speech	1 TRI	X	Marching Band	1 TRI	X	Health Education	1 TRI		Metal Math Appl	1 TRI	X
English 10	2 TRI	X	Jazz Band	1 TRI	X	SCIENCE			Building Trade Math Appl	3 TRI	X
English 11	2 TRI	X	Concert Orchestra	3 TRI	X	Intro to Chemistry	2 TRI		Engineering CAD	1 TRI	
Media Studies	1 TRI	X	Symphony Orchestra	3 TRI	X	Intro to Physics	1 TRI		Engineering CAD 2	1 TRI	X
Intro To Creative Writing	1 TRI		Ladies Ensemble	3 TRI		Biology	3 TRI	X	Engineering CAD 3	1 TRI	X
Adv Creative Writing	1 TRI	X	Choir	3 TRI		AP Biology	3 TRI	X	Architectural CAD	1 TRI	
Literature & Film	1 TRI	X	Music Appreciation	1 TRI		College Prep Chemistry	2 TRI	X	Digital Photography 1	1 TRI	X
Debate	1 TRI	X	FOREIGN LANG			College Prep Hrs Chemistry	2 TRI	X	Digital Photography 2	1 TRI	X
English 12 A -Senior Eng	1 TRI	X	French 1	2 TRI		AP Chemistry	3 TRI	X	Video Production	1 TRI	
English 12 B- Senior Eng	1 TRI	X	French 2	2 TRI	X	College Prep Physics	2 TRI	X	Adv Video Product	1 TRI	X
College English A	1 TRI	X	French 3	2 TRI	X	AP Physics	3 TRI	X	Television Media	3 TRIS	X
College English B	1 TRI	X	French 4	2 TRI	X	Astronomy	1 TRI	X	KC/TC		
College English C	1 TRI	X	Spanish 1	2 TRI		Ecology	1 TRI	X	1st Session Class (2 Periods)	3 TRI	X
Shakespeare	1 TRI	X	Spanish 2	2 TRI	X	Forensic Science	1 TRI	X	2nd Session Class (2 Periods)	3 TRI	X
Senior Capstone	1 TRI	X	Spanish 3	2 TRI	X	Anatomy & Physiology	1 TRI	X	OTHER		
Grammar & Mechanics	1 TRI	X	Spanish 4	2 TRI	X	Intro to Agriscience	1 TRI	X	Dual Enrollment		X
AP Eng Lang & Comp	3 TRI	X	AP Spanish	3 TRI	X	Animal Science	1 TRI		Library Science		
						Animal Science II	1 TRI	X	Library Media Studies	1 Tri	X

**** 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
Computer 2	.5	Successful completion of Computer 1
Introduction to Business	.5	None
Introduction to Accounting	.5	Intro to Business recom- Can be used for senior math credit
Accounting II	.5	Intro to Accounting – Can be used for senior math credit
Advertising & Marketing	.5	Computer 1 & Intro to Business recommended
Business Law	.5	Grade 10 & Intro to Business
Personal Finance	.5	Grade 12 – Can be used for senior math credit
Spirit Store*	.5	Intro to Business/teacher approval required & letters of rec
School to Work*	.5 or 1	Teacher approval required & application
Sport & Entertainment Marketing	.5	Intro to Business Recommended
Career Internship*	.5	Letter of intent from student/teacher, Counselor & parent appov
Computer Programming	.5	Grades 11 & 12
Entrepreneurship 101	.5	Intro to Business & <u>Bus teacher recommendation.</u> Grades 11-12
Flash Animation and Game Devel	.5	Grades 11 & 12
Website Development & Design	.5	Grades 11 & 12
Human Resources	.5	Grades 11 & 12
Annual	1 or 1.5	Teacher approval required and grade 11 & 12 only

COURSE TITLE: Computer 1

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This is an introductory course that uses Microsoft Office 2010 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, web site design, and other integrated applications of Microsoft Office. In addition, students will develop a working knowledge of the Internet as a research tool and other various peripheral devices such as scanners, digital cameras, etc. The major outcomes of this class are:

- To be able to perform fundamental tasks using Windows, Microsoft Office 2010 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.

Mastering objectives of Computer 1 will allow students attending Grand Rapids Community College to earn college credit for CO101 and CO153. Students should discuss this opportunity with their instructor.

COURSE TITLE: Computer 2

PREREQUISITES: Computer 1

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course will deal with advanced topics using computer applications. Students will be exposed in to several new pieces of software applications including computer programming, advanced website design, digital graphics, and advanced desktop publishing.

The major content areas are as follows:

- Introduction to computer programming using Visual Basic
- Advanced website design using HTML and Java Script
- Advanced graphic design using Adobe Photoshop
- Advanced desktop publishing using Adobe InDesign

- Introduction to Flash animation

Mastering objectives of Computer 1 will allow students attending Grand Rapids Community College to earn college credit for CO101 and CO153. Students should discuss this opportunity with their instructor.

COURSE TITLE: Introduction to Business

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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:

- Provide an introduction to fundamental business concepts
- 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.

TEXTBOOK: Introduction to Business / Glencoe

COURSE TITLE: Introduction to Accounting

PREREQUISITES: None (Intro to Business recommended)

LENGTH: 1 Trimester – **Can be used for senior math credit**

COURSE DESCRIPTION:

This course is designed to provide students with the basic principles of accounting so they can utilize acquired skills in both the professional world as well as in their everyday lives. Students will study the nature of accounting in all three types of businesses: sole proprietorships, partnerships, and corporations. Skills are reinforced through real-world projects where students apply learned skills by completing accounting simulations. This course is highly recommended for all students, particularly for those considering majoring or minoring in a business field in college. The major outcomes of this course are:

- To learn skills of double-entry accounting which includes knowledge in computing, classifying, and recording numerical data to keep financial records.
- To gain an understanding of basic computerized accounting procedures.
- To learn various techniques of journalizing, posting, payroll, taxes, and cash and accrual systems.
- 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 will allow students attending Grand Rapids Community College to earn college credit for BA156. Students should discuss this opportunity with their instructor.

COURSE TITLE: Accounting II

PREREQUISITES: Grade 10 & Intro to Accounting

LENGTH: 1 Trimester – **Can be used for senior math credit**

COURSE DESCRIPTION:

This course is designed to be a continuation of Accounting 1 integrating the use of computers and exploring accounting topics as they apply to corporations. Students will enhance learning through applying skills while completing business simulations. These classroom projects are real-world application of advanced accounting and computer skills. Other activities include professional

resumes, interviewing, current business events, and PowerPoint presentations. This course is strongly recommended for all students considering a career in the business field.

The major outcomes of this course are:

- To learn advanced accounting and computer skills.
- To gain knowledge of job preparation process through preparing a resume and practice interviewing techniques.
- To gain skills necessary for further education in any business field or entry-level accounting position.

COURSE TITLE: Advertising & Marketing

PREREQUISITES: None (Computer 1 and Introduction to Business recommended)

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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:

- 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

COURSE DESCRIPTION:

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:

- 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: None

GRADE LEVEL: 12

LENGTH: 1 Trimester – **Can be used for senior math credit**

COURSE DESCRIPTION:

The goal of this course to introduce a student to personal finance through the topics of scholarship, values, goal writing, paychecks, comparing job offers, spending plans, maintaining a checkbook,

depository institutions, saving, cost of education, renting, owning a home, insurances, good credit, and identity theft. The major outcomes of this course are:

- 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.
- To gain skills to create and maintain a spending plan (budget) based on their wants, needs and values.

COURSE TITLE: Entrepreneurship 101

PREREQUISITES: Introduction to Business

LENGTH: 1 Trimester

GRADE LEVEL: 11 – 12

COURSE DESCRIPTION:

A class offered to Juniors & Seniors who have an interest 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 thru and start their own business.

COURSE TITLE: Spirit Store

PREREQUISITES: Introduction to Business & teacher recommendations with letters of rec

LENGTH: 1 Trimester

GRADE LEVEL: 11 – 12

COURSE DESCRIPTION:

This course is designed to provide students with a real-world business experience through the operation and management of a merchandising business. Students will collaborate with their peers in the financial, management, production, and marketing decisions of the school store.

COURSE TITLE: School to Work

PREREQUISITES: Teacher Approval & Application

LENGTH: 1 Trimester

GRADE LEVEL: 11– 12

COURSE DESCRIPTION:

This class allows student to gain credit for work experience and release from school for on-the-job training. The work site may be a paid or unpaid position. A short in-class experience will begin the class covering job skills and safety issues. Students will be required to complete time sheets and will be evaluated by their employer.

COURSE TITLE: Sports & Entertainment Marketing

PREREQUISITES: Introduction to Business recommended

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This class is a 2nd trimester course 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.

COURSE TITLE: Career Internship

PREREQUISITES: Letter of intent from student, letter of recommendation from Mentor/Teacher, Guidance Counselor approval, parental permission, related course work, and exemplary attendance.

LENGTH: 1 Trimester

GRADE LEVEL: 12

COURSE DESCRIPTION:

Internships are designed to give students the opportunity to learn about a career, through experience, as they work with a professional in their chosen area of study. Over the period of 1 trimester, students will complete 25 hours of classroom instruction, 50 hours of fieldwork, and a minimum of 13 hours of research. They will document their experiences in a daily journal. They will evaluate what they learned “on-the-job” and through research, in a reflection paper. Finally, students will present and defend their findings in a final Capstone presentation to a group of peers, teachers, parents and community partners. Students must have their own transportation for this class.

MATERIALS: 1. Textbook: Succeeding in the World of Work
2. Career exploration software in Career Lab.

COURSE TITLE: **Annual**

PREREQUISITES: Grades 11 & 12, Teacher recommendation & English 10

LENGTH: 2 or 3 Trimesters

COURSE DESCRIPTION:

In this course students will learn yearbook layout design. The purpose will be to participate in the construction of Lowell High School’s annual yearbook.

COURSE TITLE: **Computer Programming**

PREREQUISITES: Grades 11 & 12

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This is a trimester course that instructs students in the correct ways to design and write programs using Visual Basic. The goal of this course is to provide a rigorous and comprehensive course in computer programming for students with little or no previous programming experience. The objectives of this course are:

- To teach the fundamentals of the Microsoft Visual Basic programming language
- To understand and apply graphical user interface design principles
- To emphasize the development cycle when creating applications, which mirrors the same approach that professional developers use
- To illustrate well-written and readable programs using a disciplined coding style, including documentation and indentation standards
- To create Visual Basic applications that deploy on multiple platforms such as handheld computers, cell phones, Web pages, Windows, and Office environments
- To demonstrate how to implement logic involving sequence, selection, and repetition using Visual Basic
- To write useful, well-designed programs for personal computers and handheld computers that solve practical business problems
- To create appealing, interactive Web applications that can be delivered and executed on the Internet
- To organize complex programs by using procedures and to anticipate and prevent errors by managing exceptions

COURSE TITLE: **Flash Animation and Game Development**

PREREQUISITES: Grades 11 & 12

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Students will learn how to animate using cell animation, timelines, movies, and sound using Adobe® Flash® Creative Suite®5 (CS5). Students will learn how to draw and animate movies. Students will also create original art and use premade art assets. At the end of this course, students will have a portfolio of completed Flash animations. This course includes detailed instruction on

using Flash drawing tools, using techniques for translating an image into an animation, importing images for use in an animation, creating a walking animation with armatures, adding sound to animations, and using techniques for publishing an animation. In addition, students will also build a Flash game for the internet. Students will learn some basic programming concepts using ActionScript®, the native scripting language of Flash, to develop and customize their games. By the end of this course, students will have a fully functioning multilevel online game. Step-by-step instruction guides students through various game design projects as they learn how to use Adobe Flash. Each section of the course is followed by an assignment that builds upon the skills students learned in that section. In each assignment, students will use the skills learned in the step-by-step instruction to customize the look and feel of each section's game.

COURSE TITLE: **Website Development & Design**

PREREQUISITES: Grades 11 & 12

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This is an introductory level course that will explore the proper design and creation of web content and multimedia. Students will develop a variety of websites that will engage them in the design and production process. Students will work both individually, and in small groups, to complete classroom projects that will incorporate graphics, text, animations, and multimedia to produce websites designed to provide users with a highly interactive web experience. Several industry standard software platforms will be utilized to provide students with digital communication career experiences.

COURSE TITLE: **Human Resources**

PREREQUISITES: Grades 11 & 12

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Covers the objectives, functions, and organization of personnel programs; discusses such topics as selection training and development, job analysis, wage and salary administration, performance appraisal, disciplinary systems, employee safety and health, and the collective bargaining process.



ENGLISH DEPARTMENT CURRICULUM

English Graduation Requirements = 4 credits (8 courses)

English 9 A+B

English 10 A+B

English 11 A+B or A.P. Equivalent

4th Credit (2 trimesters) of English

**College & Test Prep, Reading for Life, and Core Assistance count as GENERAL ELECTIVE credits and do NOT satisfy English Graduation Requirements.*

Courses

Class	Trimester	Credits	2/3 Trimesters
English 9		1	2
English 10		1	2
English 11		1	2
AP English Language/Composition		1	3
English 12 A & B– Senior English	1	.5	
Senior Capstone	2nd	.5	
College English A	1st	.5	
College English B	2nd	.5	
College English C	3rd	.5	
AP English Literature		1	3
Intro To Creative Writing	1	.5	
Advanced Creative Writing	1	.5	
Literature & Film	1	.5	
Shakespeare	1	.5	
Speech	1	.5	
Media Studies	1	.5	
Debate	1	.5	
Grammar & Mechanics	1	.5	
College & Test Prep	1	.5 (Gen)	
Reading for Life	1	.5 (Gen)	
English Core Assistance A & B*	1	.5 (Gen)	

(*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

COURSE DESCRIPTION:

This course introduces students to high school level expectations for academic reading, writing, researching, speaking, and listening. Students review basic grammar, internet, and organizational skills. 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.

COURSE TITLE: English 9B

PREREQUISITES: English 9A

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course is designed to build on the foundations established in English 9A. Students explore definitions and examples of quality academic writing, practice drafting formal essays in a timed environment, and build an inventory of drafts for future evaluation. Academic texts include a novel of literary merit, a Shakespearean drama, short stories, and nonfiction articles. Grammar components emphasize knowledge and application of sentence types, comma rules, run-on sentences, and sentence fragments. Students will have multiple opportunities to utilize in-text citation skills using the MLA format and publish final products with appropriate Works Cited page information. English 9B is a single trimester class and is required for enrollment into English 10A.

COURSE TITLE: English 10A

PREREQUISITES: English 9

LENGTH: 1 Trimester

COURSE DESCRIPTION:

In this course, students will be exploring American authors and time periods through historical drama, classic and contemporary literature, informational text, poetry, and other enrichment texts including essays. Genre periods include Renaissance, Romanticism, Transcendentalism, and Realism. Literary terms and techniques indicative of these genres will be analyzed and practiced. Students will also be exposed to academic and contextual vocabulary. Grammar and usage skills stressed include proper use of prepositions, subject-verb agreement, common usage, punctuation including commas, and simple, compound, and complex sentences. Written projects include an annotated bibliography as well as a variety of short essays that elaborate on a theme, analyze literature, or persuade an audience.

COURSE TITLE: English 10B

PREREQUISITES: English 10A

LENGTH: 1 Trimester

COURSE DESCRIPTION:

In this course students will be exploring American authors and time periods through contemporary realistic fiction, classic novels, informational text, the works of the Harlem Renaissance, post World War II American drama, poetry, and other enrichment texts. Literary terms and techniques indicative of these genres will be analyzed and practiced. Students will also be exposed to academic and contextual vocabulary. Grammar and usage skills stressed include proper use of pronouns, irregular verbs, modifiers, and compound-complex sentences. Major written projects include essays, a memoir, and a research paper.

COURSE TITLE: English 11A

PREREQUISITES: English 10

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This trimester course consists mostly of British literature; the students study poetry, drama, essays, and novels, comparing and contrasting customs, themes, and eras among the selections. Students produce multiple persuasive essays, reflective papers, presentations, and various independent/group projects. In addition, this course will emphasize advanced modes of composition and grammar, reinforcing the skills required by the ACT/MME.

COURSE TITLE: English 11B

PREREQUISITES: English 11A

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This trimester course consists of world literature; the students study poetry, short stories, drama, essays, and novels, comparing and contrasting customs, themes, and eras among the selections. Students produce informational and analytical essays, reflective papers, and a research paper. In addition, this course will emphasize advanced modes of composition, grammar, and punctuation and will reinforce the skills required by the Michigan Merit Exam/ACT.

COURSE TITLE: AP English Language and Composition

PREREQUISITES: English 10 (Open enrollment, but grades of B or better are preferred)

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

AP Language is a 3 trimester study of nonfiction, both analysis and composition. 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 reading prior to taking the course. Upon completing the Language and Composition Course, students should be able to:

- Analyze and interpret samples of good writing, identifying and explaining and author's use of rhetorical strategies and techniques.
- Apply effective strategies and techniques in their own writing.
- Create and sustain arguments based on readings, research, and/or personal experiences.
- Demonstrate understanding and mastery of standard written English as well as stylistic maturity in their own writing.
- Write in a variety of genres and contexts, both formal and informal, employing appropriate conventions.
- Produce expository and argumentative compositions 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 writing process, with careful attention to inquiry and research, drafting, revising, editing, and review.

COURSE TITLE: English 12A - Senior English

PREREQUISITES: Successful Completion of English 9, 10, and 11

LENGTH: 1 Trimester only

GRADE LEVEL: 12 (Students must be able to leave the school grounds.)

COURSE DESCRIPTION:

This course has been designed to help you write documents that you will need for your future (like college application essays and resumes), investigate jobs that you might like to have as a career, learn about tricks that are used by companies and politicians to secretly influence you, and decide to what extent you will participate in the political process.

COURSE TITLE: English 12B - Senior English
PREREQUISITES: Successful Completion of English 9, 10, and 11
LENGTH: 1 Trimester only
GRADE LEVEL: 12 (Students must be able to leave the school grounds.)
COURSE DESCRIPTION: This course allows you to learn about yourself and the world by taking a glimpse at sacred writings, important articles about leadership and how to grow leadership skills, and about how stories have made a significant impact on our world. You'll also be able to take part in a creative writing piece yourself!

COURSE TITLE: Senior Capstone
PREREQUISITES: Successful Completion of English 9, 10, and 11
LENGTH: 1 Trimester only (The 2nd Term of the senior year)
GRADE LEVEL: 12 (Students must be able to leave the school grounds.)
COURSE DESCRIPTION:
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.

COURSE TITLE: College English A, B, & C
PREREQUISITES: Grade 12 (a B- in previous English courses is highly recommended although not required)
LENGTH: 1 Trimester
COURSE DESCRIPTION:
This course is designed for college-bound students who wish to take an advanced level literature and writing class and can work independently on assignments. College-level short stories, plays, and novels will be read. All students will write MLA-style research papers and produce various projects. A literary criticism, using proper documentation, will also be required. Emphasis will be placed on writing well-organized and comprehensive tests and papers. Our study for the trimester will explore various themes associated with the human experience and/or current events. Past themes have included explorations of the following: 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.

COURSE TITLE: AP English Literature
PREREQUISITES: English 11 (or AP English Language) (Open enrollment, but a B+ average in English classes is preferred)
LENGTH: 3 Trimesters
COURSE DESCRIPTION:
This 3 trimester course is designed to prepare students with advanced skills in literature and composition for the Advance Placement tests in English. While the class will cover similar material as Novel/College English, it will follow material designed to meet AP standards. Students must be able to read material independently and be prepared to actively participate in class discussions, projects, etc. Students are required to read four selections during summer vacation to prepare for the class.

- To carefully read and critically analyze imaginative literature.
- To understand the way writers use language to provide meaning and pleasure
- To consider a work's structure, style, and themes as well as such smaller scale elements as the use of figurative language, imagery, symbolism, and tone.

- To study representative works from various genres and periods (from the 16th to the 21st century) but know a few works extremely well.
- To understand a work's complexity, to absorb richness of meaning, and to analyze how meaning is embodied in literary form.
- To consider the social and historical values a work reflects and embodies.
- To write focusing on critical analysis of literature including expository, analytical, and argumentative essays as well as creative writings to sharpen understanding of writer's accomplishments and deepen appreciation of literary artistry.

COURSE TITLE: Intro to Creative Writing

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course is designed as an introduction to creative writing through the creation of original poems, fiction, and nonfiction. Students will keep a journal, critique each other's work, and complete various exercises designed to stimulate the imagination and hone their writing skills. Writers will form a community and learn how to be compassionate and critically engaged readers for one another's work, and all students will be encouraged to develop their personal voice and practice writing like a reader and reading like a writer.

COURSE TITLE: Advanced Creative Writing

PREREQUISITES: Intro to Creative Writing

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Advanced Creative Writing explores and expands on foundational concepts and skills taught in Intro to Creative Writing. Students will develop personal writing ability by widening their generic range and developing knowledge of style. 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 with an attentive group of peers and participate in candid, helpful critiques of their own work and that of their peers to hone advanced skills. All writers will continue to develop their personal voice and further their practice writing like a reader and reading like a writer.

COURSE TITLE: Literature & Film

PREREQUISITES: Successful Completion of English 9, 10, and 11

LENGTH: 1 Trimester only

GRADE LEVEL: 12 (Students must be able to watch PG-13 movies.)

COURSE DESCRIPTION:

Would you like to incorporate the study of movies into your English studies? If so, this class is for you! In this course you'll view movies; read short stories and books; conduct research about genres and your favorite, popular characters; you'll evaluate the quality of movies; and attend an awards ceremony!

COURSE TITLE: Shakespeare

PREREQUISITES: English 10

GRADE LEVEL: 11-12

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course involves a closer study of Shakespeare's work, including his sonnets and at least 4 of his plays. A presentation and analysis of a sonnet, various response essays, and a collaborative staging

and play analysis will be required. Students will read and discuss the plays, stage scenes, and explore Shakespeare through his stories, characters, language, themes, and dramatic effects.

COURSE TITLE: Speech
GRADE LEVEL: Grades 10 - 12
LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course is designed to introduce the basic areas of interpersonal and rhetorical speech (public speaking) and discussion. Major presentations include an oral interpretation, a demonstration speech, an informative speech, a persuasive speech, and an interpersonal communication project.

COURSE TITLE: Media Studies
PREREQUISITES: Grades 11-12
GRADE LEVEL: 12
LENGTH: 1 Trimester

COURSE DESCRIPTION:

Media Studies allows students to discover the history of American media—books, newspapers, magazines, movies, radio, television, cable, and the Internet—through engaging class discussions, examination of primary documents, and practical applications of ethical journalism techniques. Students will participate in creating an online newspaper, podcasts, and other Internet-based media projects.

COURSE TITLE: Debate
PREREQUISITES: English 9
GRADE LEVEL: 10 - 12
LENGTH: 1 Trimester

COURSE DESCRIPTION:

In this one trimester course students will gain a basic understanding of argumentation, especially as it relates to debating, and will research in depth a topic of current importance as stipulated each year by M.I.F.A. Policy and Legislative debate will be covered along with Lincoln-Douglas debate (time permitting). A high level of independence and the ability to research extensively are required.

COURSE TITLE: Grammar and Mechanics
PREREQUISITES: English 9 and 10
LENGTH: 1 Trimester

COURSE DESCRIPTION:

At the college level and out in the world beyond high school, effective written communication is imperative. This class will help students improve their spelling, grammar, usage, and mechanics through a workshop approach, based on the book *Mechanically Inclined*. This will not be a traditional drill and kill grammar class. Instead, students will be asked to focus on rich literary examples and the power of the written word, crafting and practicing various writing patterns. Grammar and mechanics will be seen as a means to the message, fostering an atmosphere of individual growth and a desire to improve writing during the process of writing.

COURSE TITLE: College & Test Prep
PREREQUISITES: Grades 9 and 10
LENGTH: 1 Trimester

COURSE DESCRIPTION:

The key to the ultimate ACT composite score involves reading rate and comprehension, test familiarity, skill review, and timed practice. Unfortunately, many high school students don't have time to prepare for the ACT on their own. This class is designed to walk students through the ACT composite (English, math, reading, and science) and writing tests. The class focuses on the

importance (statistics and various articles) and improvement of reading, delicately balancing challenging texts and independent choices to bolster a love and appreciation for reading beyond high school. In addition, the class involves discussions with college students and counselors in regard to college preparation and expectations.

COURSE TITLE: **Reading for Life**

PREREQUISITES: Teacher Recommendation and Plan Scores

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Given today's hectic schedules and myriad entertainment options, pleasure reading has declined. However, recent research shows that adults who incorporate reading into their lifestyle tend to be more successful professionally, involved socially, and happier personally. This class will focus on how to find a book, how to connect to it, and how to enjoy it. Useful reading strategies will be introduced to help students build upon their pleasure reading and push them into new domains: informational reading and reading for test taking. Minimal outside work is required. Creating life-long readers and learners with useful skills is the primary goal of this class.

COURSE TITLE: **English Core Assistance A & B**

PREREQUISITES: Teacher approval, MAP and MEAP scores & enrolled in English 10 or English 11

LENGTH: 1 trimester

GRADE LEVEL: 10-11

COURSE DESCRIPTION:

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.



Fine/Visual Arts Curriculum

Course Name	Credit	Course Fee	Prerequisites
Art 1	.5		Interest in Art
Art 2	.5		Art 1
Drawing	.5	\$10.00	Art 1 & Art 2
Painting	.5	\$10.00	Art 1 & Art 2
Adv Drawing & Painting	.5	\$10.00	Drawing & Painting , Art 2 recommended
Ceramics 1	.5	\$10.00	Art 1
Adv Ceramics 2	.5	\$10.00	Ceramics 1
Adv Ceramics 3	.5	\$10.00	Ceramics 2
Sculpture	.5	\$10.00	Art 1 & Art 2
Photography 1	.5	\$10.00	Art 1
Photography 2	.5	\$10.00	Photography 1
Digital Imaging	.5	\$10.00	Art 1, Computer 1 (Art 2 strongly recommended)

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

COURSE DESCRIPTION:

Art 1 is a course that is designed to meet many purposes. It is the introductory course for all art courses offered at LHS. It teaches the basic elements of art and design which are necessary for aspiring art students, students taking art for background for a variety of careers, or students enrolling to meet their fine arts requirement. Students will have a great opportunity to experience a variety of concepts, projects, and techniques as well as using many materials. This course is an excellent choice for students wanting beginning knowledge 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 so that continued art courses can be pursued.

MATERIALS: Text: Art Talk

COURSE TITLE: Art 2
PREREQUISITES: Art 1
LENGTH: 1 Trimester

COURSE DESCRIPTION:

Art 2 is an advanced step from Art 1 course work with new emphasis placed on the principles of art and design along with advanced techniques and skill levels. This course actually develops the concepts and knowledge necessary to complete successful artwork because of the strong focus on composition. Students throughout the trimester will also increase their awareness of the art elements. Art 2 is strongly encouraged before students continue to more advanced course work. The materials utilized in this class will be more complex than Art 1 and equipment will also be of a more technical nature. Development of creative expression, control of media, tools and technique will enable students to master this course outcome. This class also provides great knowledge necessary for a wide scope of careers other than those based solely on art.

MATERIALS: Text: Art Talk

COURSE TITLE: **Drawing**
PREREQUISITES: Art 1 & Art 2
LENGTH: 1 Trimester
COURSE MATERIAL FEE: **\$10.00**

COURSE DESCRIPTION:

Drawing is a one trimester advanced art course which focuses on a variety of drawing techniques, styles, and drawing media. Topics and techniques included, but not restricted to, charcoal, graphite, pen and ink, stippling, hatching and crosshatching, oil pastel, chalk, conte figure drawing, portraiture, landscape, abstraction, realism, and artist studies.

MATERIALS: Text: Discovering Drawing

COURSE TITLE: **Painting**
PREREQUISITES: Art 1 & Art 2
LENGTH: 1 Trimester
COURSE MATERIAL FEE: **\$10.00**

COURSE DESCRIPTION:

Painting is a one trimester advanced art course which focuses on painting techniques and styles, painting media – watercolor, acrylic, oil, air brush, mixed media- and different painting compositional styles - still life, landscape, abstraction, realism, and artist studies.

COURSE TITLE: **Adv Drawing and Painting**
PREREQUISITES: Art 1, Art 2 & Drawing or Painting
LENGTH: 1 Trimester
COURSE MATERIAL FEE: **\$10.00**

COURSE DESCRIPTION:

Advanced Drawing and Painting is a one trimester class studying both drawing and painting at a very advanced level.

COURSE TITLE: **Ceramics 1**
PREREQUISITES: Art 1
LENGTH: 1 Trimester
COURSE MATERIAL FEE: **\$10.00**

COURSE DESCRIPTION:

In this hands-on course students will have the opportunity to utilize the art elements they have learned and combine that knowledge with new information regarding three-dimensional form and the properties of clay. Emphasis will be placed on learning how to create projects using fired clay as a primary medium. Projects will include pinch pot work, coil, slab building and wheel throwing. Sculpture will also be included and often times will remain an option for the student. Students will have the opportunity to experience a variety of glazing techniques.

COURSE TITLE: **Adv Ceramics 2**
PREREQUISITES: Ceramics 1 with a grade of B- or higher strongly encouraged
LENGTH: 1 Trimester
COURSE MATERIAL FEE: **\$10.00**

COURSE DESCRIPTION:

This course is a continuation from a successful Ceramics 1 experience. Students will be introduced to more advanced methods of clay construction. The level of assignments will be more complex, conceptual, and require strong construction and techniques knowledge. Students will use familiar techniques of wheel throwing, pinch, coil and slab with additional techniques of extruder and press mold construction. Students will have the opportunity to construct of at least one piece of their own design. Glazing and firing techniques will be more advanced and will include Raku.

COURSE TITLE: Adv Ceramics 3

PREREQUISITES: Ceramics 2 with a grade of B- or higher strongly encouraged

LENGTH: 1 Trimester

COURSE MATERIAL FEE: \$10.00

COURSE DESCRIPTION:

In this course 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. Only students with a serious interest in ceramics should enroll in this course.

COURSE TITLE: Sculpture

PREREQUISITES: Art 1 & Art 2

LENGTH: 1 Trimester

COURSE MATERIAL FEE: \$10.00

COURSE DESCRIPTION:

Sculpture is one trimester advanced art course which explores the exciting concepts of 3D design. Students will learn about 3D art concepts and work with variety of materials and sculptural construction methods. Some of the methods and concepts addressed are subtractive and additive methods of construction, assemblage, realism, symbolism, abstraction, and non-objective work.

COURSE TITLE: Photography 1

PREREQUISITES: Art 1

LENGTH: 1 Trimester

COURSE MATERIAL FEE: \$10.00

COURSE DESCRIPTION:

This course is designed to introduce students to the art of black and white photography. Students will learn basics in composition, the mechanics of a single-lens reflex camera, film developing, and darkroom printing. Computer, digital, and Polaroid cameras will also be used. Students will explore various types of photography, such as outdoor, studio, and action shots, as well as the history of photography. Students will also experiment with digital images and manipulating them with a painting program on the computer. Polaroid color photography will also be explored. Students may need to purchase additional film and printing supplies.

COURSE TITLE: Photography 2

PREREQUISITES: Photography 1

LENGTH: 1 Trimester

COURSE MATERIAL FEE: \$10.00

COURSE DESCRIPTION:

A one trimester course in which students go beyond the basics of Photography 1 to develop their 35MM "SLR" skills. Students will explore more fully composition and design of photographs. Still dealing primarily with black and white, students will experiment with lighting, special effects, filters, and lenses. Computers, digital and large format cameras will also be used. Students will also experiment with digital images and manipulating them with a painting program on the computer. Polaroid color photography will also be explored.

COURSE TITLE: Digital Imaging

PREREQUISITES: Art 1 & Computer 1 (Art 2 strongly recommended)

LENGTH: 1 Trimester

COURSE MATERIAL FEE: \$10.00

COURSE DESCRIPTION:

As a digital illustrator you have the opportunity to explore a bold new world translating traditional art, subjects, and concepts into the exciting medium of computer imaging. Because of the complex

nature of the course and limited equipment students will need to meet a demanding set of prerequisites. Computer graphics 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. This course is designed for art majors who would like to combine traditional art medium with computer systems, digital camera, and scanner and leading edge software to create individual art pieces.

- MATERIALS:**
1. Photoshop Classroom in a Book (Classroom sets only, so students will need to complete work during the class hour)
 2. Software: Adobe Photoshop, Extensive handout sheets, class demonstrations and lecture.

Drama Curriculum

COURSE TITLE: **Drama**
PREREQUISITES: None
LENGTH: 1 Trimester

COURSE DESCRIPTION:
 Students will develop an understanding of drama 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. *Drama can be used as a fine arts requirement or as an elective course.*

COURSE TITLE: **Acting & Directing**
PREREQUISITES: Drama
LENGTH: 1 Trimester

COURSE DESCRIPTION:
 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.

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
Concert Orchestra	1.5	3 Trimesters
Symphony Orchestra	1.5	3 Trimesters
Ladies Ensemble	1.5	3 Trimesters
Choir	1.5	3 Trimesters
Music Appreciation	.5	.1 Trimester

COURSE TITLE: **Symphonic Band**
PREREQUISITES: Previous band experience and director recommendation
LENGTH: 2 Trimesters

COURSE DESCRIPTION:
 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.

MATERIALS: Various warm-up material and sheet music

COURSE TITLE: **Concert Band**
PREREQUISITES: Previous band experience
LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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.

MATERIAL: Various warm-up materials and sheet music

COURSE TITLE: **Marching Band**
PREREQUISITES: Previous band experience
LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

COURSE TITLE: **Jazz Band**
PREREQUISITES: Previous band experience
LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

COURSE TITLE: **Concert Orchestra**
PREREQUISITES: Previous orchestra experience and/or teacher approval
LENGTH: 3 Trimesters

COURSE DESCRIPTION:

Concert orchestra is a performance based course focused on developing stringed instrument repertoire, individual technique and ensemble skills. 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.

MATERIAL: All students need their own violin, viola, cello or bass. School will supply various warm-up materials and sheet music.

COURSE TITLE: **Symphony Orchestra**
PREREQUISITES: By audition only
LENGTH: 3 Trimesters

COURSE DESCRIPTION:

Symphony orchestra is an advanced performance based course focused on developing stringed instrument repertoire, individual technique and ensemble skills. 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.

MATERIAL: All students need their own violin, viola, cello or bass. School will supply various warm-up materials and sheet music.

COURSE TITLE: Ladies Ensemble

PREREQUISITES: None

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

Ladies' Ensemble 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 Ladies' Ensemble 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.

MATERIALS: Black nylons and black dress shoes (dresses and music will be provided)

COURSE TITLE: Choir

PREREQUISITES: Audition or director recommendation

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

The Lowell High School Concert Choir is an advanced combined ensemble with members 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 Choral Festival.

MATERIALS: Long white sleeve shirts and black dress shoes (uniforms and music will be provided)

COURSE TITLE: Music Appreciation

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.



Foreign Language 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
COURSE DESCRIPTION:

This class introduces the culture of France as well as the cultures of other countries of the world where French is spoken. Emphasis will be placed on French conversation, pronunciation, and on learning basic grammar rules. We will practice listening, speaking, reading and writing skills. In addition, students will be exposed to movies, slides, computer applications, songs, magazines, native speakers, games, and pen pals.

MATERIALS: 1. Textbook: C'est a Toi Level 1 EMC 2002
 2. Workbook C'est a Toi Level 1 EMC 2002

COURSE TITLE: **French 2**
PREREQUISITES: French 1
LENGTH: 2 Trimesters
COURSE DESCRIPTION:

As a continuation of French 1, French 2 will stress listening, speaking, reading and writing skills. 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, slides) to promote a fun and creative learning environment. Upon completion of this course, students will have a solid understanding of the French language, and will be prepared to apply this knowledge in the project-based activities of the next level.

MATERIALS: 1. Textbook: C'est a Toi Level 2 EMC 2002
 2. Workbook: C'est a Toi Level 2 EMC 2002

COURSE TITLE: French 3 or 4
PREREQUISITES: French 2 or French 3
LENGTH: 2 Trimesters

COURSE DESCRIPTION:

French 3 and French 4 are designed for serious students of French who intend to continue the study of French at the university level or to earn college credit thru waiver options. We will continue our study of remaining grammatical structures and practice our communications skills. Class conversations will be conducted in French, except for grammar explanations. Some of our activities will involve reading a French novel and short stories, preparing and teaching French lessons to elementary students, and special 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. Upon completion of this course, students will be prepared for university placement tests and waiver options. They will also be prepared to live and work abroad in a French-speaking country.

MATERIALS:

1. Textbook: C'est a Toi Level 3 EMC 2002
2. Workbook: C'est a Toi Level 3 EMC 2002
3. French/English Dictionary recommended

COURSE TITLE: Spanish 1
PREREQUISITES: None
LENGTH: 2 Trimesters

COURSE DESCRIPTION:

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.

MATERIALS:

1. Textbook: !Ven Conmigo Level 1, Holt Rinehart & Winston 2003
2. Workbook: !Ven Conmigo Level, Holt Rinehart & Winston 2003

COURSE TITLE: Spanish 2
PREREQUISITES: Spanish 1
LENGTH: 2 Trimesters

COURSE DESCRIPTION:

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.

MATERIALS:

1. Textbook: !Ven Conmigo Level 2, Holt Rinehart & Winston 2003
2. Workbook: !Ven Conmigo Level 2, Holt Rinehart & Winston 2003
3. Spanish/English dictionary

COURSE TITLE: Spanish 3 or 4

PREREQUISITES: Spanish 2 or 3

LENGTH: 2 Trimesters

COURSE DESCRIPTION:

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. Students will teach Spanish to elementary students. 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 thru waiver options, or live and work abroad in a Spanish-speaking country.

MATERIALS:

1. Textbook: !Ven Conmigo Level 3, Holt Rinehart & Winston 2003
2. Workbook: !Ven Conmigo Level 3, Holt Rinehart & Winston 2003
3. Spanish/English Dictionary

COURSE TITLE: AP Spanish Language

PREREQUISITES: Spanish 4 with a “B” average recommended

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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:

- ▶ 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 Curriculum

Class	Credits	Trimesters
Algebra	1	2
Geometry	1	2
Algebra 2/ Hrs Algebra 2	1.5	2 or 3
FST	1	2
Accelerated Precalculus	.5	1
Precalculus	1	2
College Algebra Foundations	.5	1
AP Statistics	1.5	3
AP Calculus AB	1.5	3
AP Calculus BC	1.5	3

COURSE TITLE: **Algebra**

PREREQUISITES: Successful completion of Pre-Algebra

LENGTH: 2 Trimesters

COURSE DESCRIPTION:

This course is a comprehensive course in Algebra with a concentration of realistic applications to enhance students' knowledge of mathematics. An exposure to challenging problems will sharpen logical reason and spatial visualization abilities.

MATERIALS: Scientific calculator

COURSE TITLE: **Geometry**

PREREQUISITES: Successful completion of Algebra

LENGTH: 2 Trimesters

COURSE 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 master the use of formal proofs. Reading and problem-solving are also emphasized throughout the course.

MATERIALS: 1. Scientific calculator

2. Compass

3. Protractor

COURSE TITLE: **Algebra 2/ Hr Algebra 2**

PREREQUISITES: Successful completion of Geometry

LENGTH: 2 or 3 Trimesters

COURSE DESCRIPTION:

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, matrices, sequences and series, and probability and statistics through real-life problems.

MATERIALS: TI-83 Plus or TI-84 Plus calculator

COURSE TITLE: **College Algebra Foundations**

PREREQUISITES: 1) Successful completion of Algebra 2

2) Must be a 12th Grader

3) Planning to attend college upon graduation

LENGTH: 1 Trimester

COURSE DESCRIPTION:

The content of this course is focused on preparation for college algebra. This is a one trimester course and is intended to be taken during the senior year in preparation for college math courses.

This course aims to provide students with a college-type course experience that will reinforce their

knowledge base so that they can be prepared to score higher on a placement test and enroll into a college level math course. Also, the course will aim to develop study habits and student traits which will aid in student success at the collegiate level. Along with developing student knowledge, this will provide students with a required math credit in their senior year, thus meeting the state graduation requirement.

MATERIALS: TI-83 Plus or TI-84 Plus calculator

COURSE TITLE: **Functions, Statistics and Trigonometry (FST)**

PREREQUISITES: Successful completion of Algebra 2

LENGTH: 2 trimesters

GRADE LEVEL: 11 - 12

COURSE DESCRIPTION:

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.

MATERIALS: TI-83 Plus or TI-84 Plus calculator

COURSE TITLE: **Precalculus**

PREREQUISITES: 1) Successful completion of Algebra 2

2) Teacher Recommendation

LENGTH: 2 Trimesters

COURSE DESCRIPTION:

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.

MATERIALS: TI-83 Plus or TI-84 Plus calculator

COURSE TITLE: **Accelerated Precalculus**

PREREQUISITES: Successful completion of Algebra 2

LENGTH: 1 Trimester

COURSE DESCRIPTION:

The content of this course is focused on preparation for Calculus. This is a one trimester course and is intended to be taken during the third trimester immediately following the Algebra 2 B course. This class is a rigorous and abbreviated version of the normal pre-calculus class. The students will cover only the topics essential and preparatory to calculus. Students who successfully complete this course with a “B” or higher will be prepared for the AP Calculus class the following year. The course will conclude with actual calculus topics.

MATERIALS: TI-83 Plus or TI-84 Plus calculator

COURSE TITLE: **AP Statistics**

PREREQUISITES: Precalculus or Accelerated Precalculus

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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.

MATERIALS: TI-83 Plus or TI-84 Plus calculator

COURSE TITLE: AP Calculus AB

PREREQUISITES: 1) Successful completion of Precalculus
2) **Teacher Recommendation**

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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.

MATERIALS: Graphics calculator (TI-89 is recommended)

COURSE TITLE: AP Calculus BC

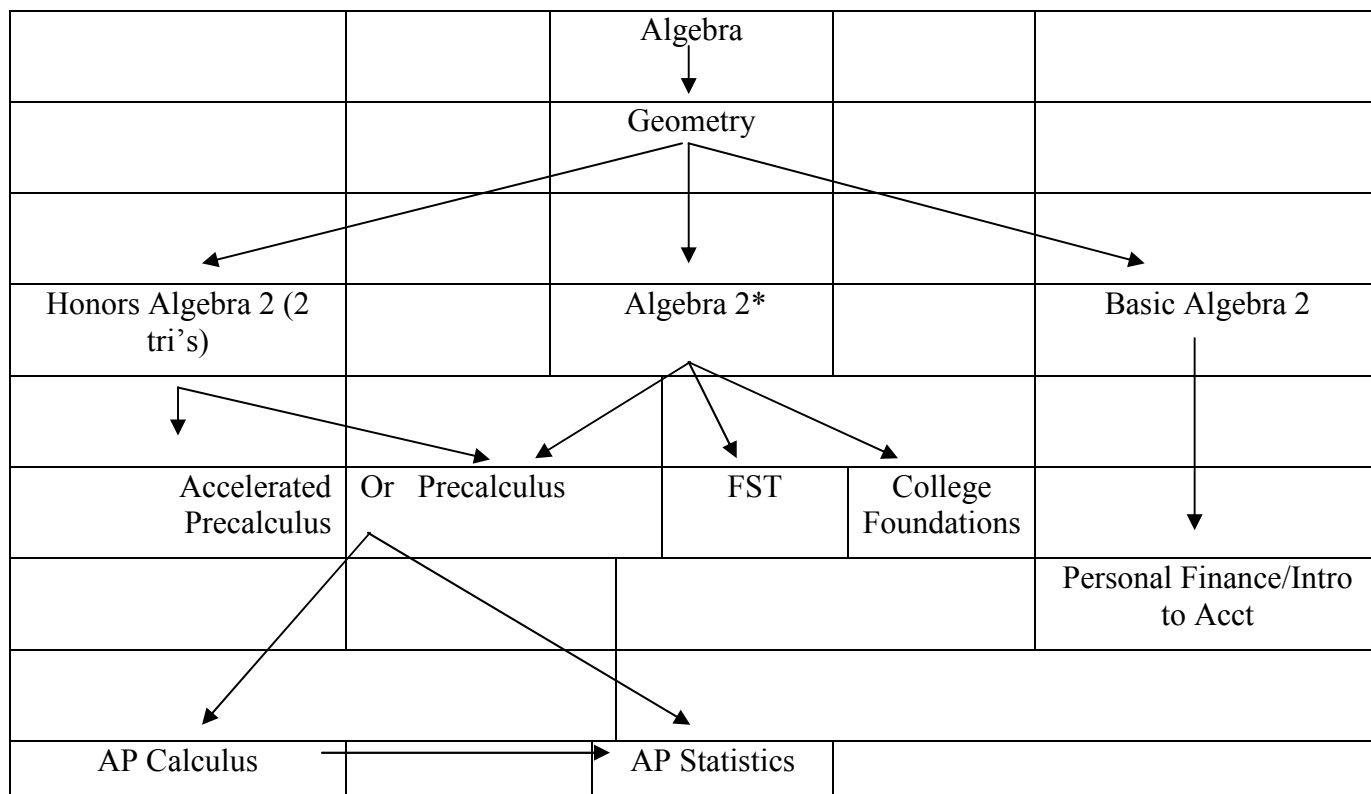
PREREQUISITES: 1) Successful completion of Precalculus
2) Teacher Recommendation

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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.

MATERIALS: Graphics calculator (TI-89 is recommended)



*Algebra 2 can be retaken for credit during the senior year.



Physical Education/Health 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	1 Tri PE Fall, Winter, 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 require 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 9 only if they have less than 1 full credit of PE
- If all PE requirements are met, students may take any elective course.
- A student taking any elective course a second time must have the approval of the instructor.
- A student may not repeat the same course to earn the one required PE credit unless the course was failed.
- 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	Wiffleball	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

COURSE DESCRIPTION: This course is offered 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.

MATERIALS: Clothes and shoes suitable for Physical Education.

COURSE TITLE: Physical Education Winter

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course is offered 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.

MATERIALS: Clothes and shoes suitable for Physical Education.

COURSE TITLE: Physical Education Spring

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course is offered 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.

MATERIALS: Clothes and shoes suitable for Physical Education.

COURSE TITLE: Pilates & Aerobics

PREREQUISITE: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

COURSE TITLE: Healthy Lifestyles

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

COURSE TITLE: Advanced Physical Education

PREREQUISITES: Either PE Fall, PE Winter or PE Spring

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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 through out the trimester as well.

MATERIALS: Clothes and shoes suitable for Physical Education.

COURSE TITLE: **Body Mechanics Fall, Winter or Spring**

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

MATERIALS: Gym clothes and proper shoes

COURSE TITLE: **Health Education**

PREREQUISITE: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

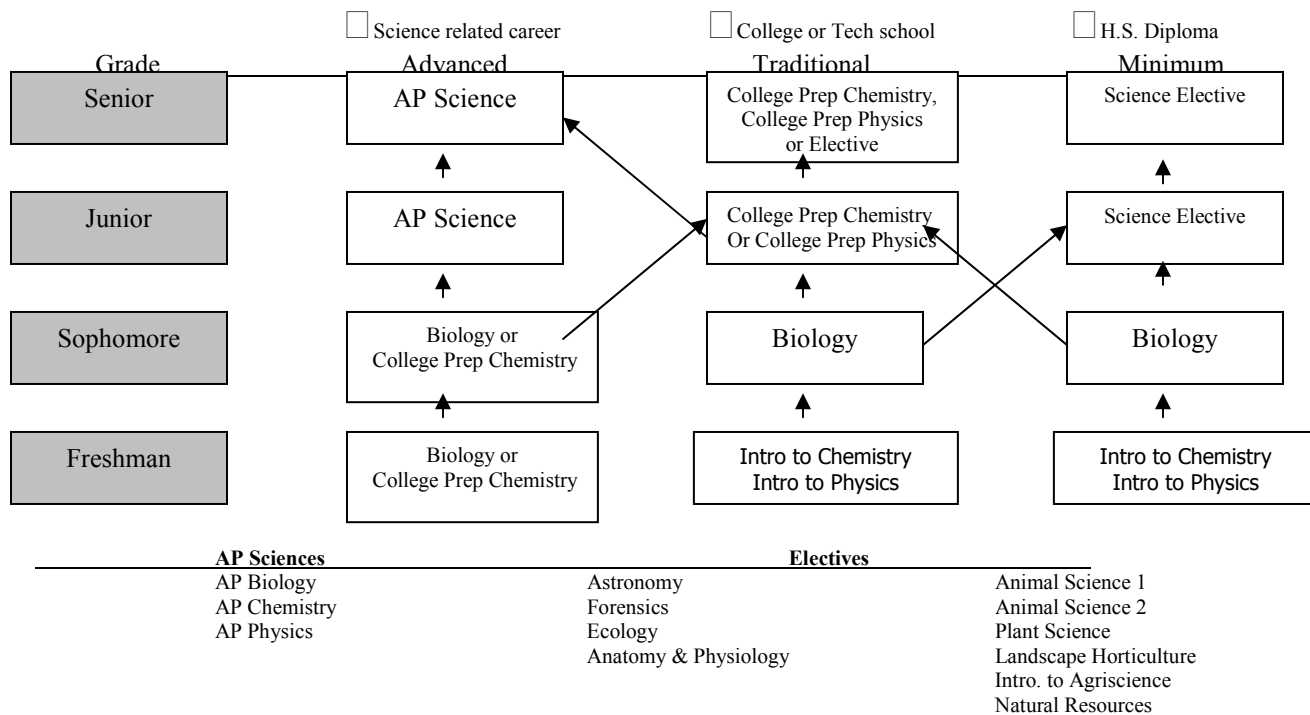
MATERIALS:

1. Book: Perspectives on Health
2. American Red Cross Book: CPR/ in class
3. Current Health 2: Continuing Guide to Health Education



Science Department

Science Flowchart



***3 Credits required for graduation-Biology (1.5 credits), Chemistry or Physics (1 credit) and 1 science elective (.5 credit)**

Science Class	# of Trimesters	Credit
Intro to Chemistry	1	.5
Intro to Physics	1	.5
Biology	3	1.5
A.P. Biology	3	1.5
College Prep Chemistry	2	1
College Prep Hrs Chemistry	2	1
A.P. Chemistry	3	1.5
College Prep Physics	2	1
A.P. Physics	3	1.5
Astronomy	1	.5
Ecology	1	.5
Forensics Science	1	.5
Anatomy and Physiology	1	.5
Introduction to Agriscience	1	.5
Animal Science	1	.5
Animal Science 2	1	.5
Plant Science	1	.5
Natural Resources	1	.5
Landscape Horticulture	1	.5
Total	31	15.5

Agriscience classes are listed in their own section of the Science Department Curriculum Guide

COURSE TITLE: Intro to Chemistry

PREREQUISIES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Chemistry is a course designed to introduce you to the fundamental concepts of matter, and the interactions of matter with the natural world. These microscopic interactions govern our World, and our Universe. This class will guide you through the foundations of scientific study, changes in matter, atomic structure, organic compounds, and energy conservation. You will observe, experiment, calculate, analyze, and come to conclusions via labs and hands on activities focused on preparing you for a society immersed in the direct applications of science to innovation and technology.

COURSE TITLE: Intro to Physics

PREREQUISIES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Physics is a course designed to study matter in motion, the energies and forces that control that motion, and the universal laws that explain that motion. We will investigate the behaviors of microscopic interactions of sub-atomic particles that are responsible for the nuclear age of the 20th century, as well as the macroscopic behaviors of toys and roller coasters. We will use mathematical formulae to solve scientific problems that deal with everyday objects and materials to better understand the world in which we live.

COURSE TITLE: Biology

PREREQUISITES: None

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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.

COURSE TITLE: AP Biology

PREREQUISITES: Biology with an “B” or better recommended

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

A.P. 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, power point 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.

MATERIALS:

1. Calculator
2. Chapter Packets/3-ring binder
3. Books & reference material in Media Center
4. Internet Access
5. Text: Biology: AP Edition

COURSE TITLE: College Prep Chemistry

PREREQUISITES: Algebra 1

LENGTH: 2 Trimesters

COURSE DESCRIPTION:

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 solution, gas laws, chemical reactions and specific topics such as organic and nuclear chemistry. Dynamic labs, demonstrations, and classroom discussions are used in the curriculum.

MATERIALS:

1. Scientific calculator
2. 3-ring binder

COURSE TITLE: College Prep Hrs Chemistry

PREREQUISITES: Recommendation of Science Teacher.

LENGTH: 2 Trimesters

COURSE DESCRIPTION:

Honors Chemistry allows advanced science/math students to work through the Chemistry curriculum at an accelerated pace. This allows students to be exposed to more advanced topics. This class is open to motivated students interested in further study in the sciences (Physics, Advanced Chemistry, College Science, Engineering, and Medicine).

MATERIALS:

1. Scientific calculator
2. 3-ring binder

COURSE TITLE: AP Chemistry

PREREQUISITES: Completion of Chemistry and Algebra 2 with a “B” average recommended

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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..

MATERIALS:

1. Textbook: Chemistry: The Central Science
2. Scientific calculator
3. 3-ring binder

COURSE TITLE: College Prep Physics

PREREQUISITES: Grade 11 & Algebra 2

LENGTH: 2 Trimesters

COURSE DESCRIPTION:

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 for college-bound students and is very much math oriented. Physics 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.

- MATERIALS:**
1. Textbook: Modern Physics
 2. Scientific calculator
 3. 3-ring binder

COURSE TITLE: AP Physics
PREREQUISITES: Grade 12 & Precalculus
LENGTH: 3 Trimesters

COURSE DESCRIPTION:

This 3 trimester 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 will award students college credit for this course. Students should expect to spend an average of one hour each night doing homework.

- MATERIALS:**
1. Graphing calculator

COURSE TITLE: Astronomy
PREREQUISITES: Chemistry A, Physics 9
LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

- MATERIALS:**
1. Textbook: Astronomy: A Beginner's Guide to the Universe by Prentice Hall
 2. Scientific calculator

COURSE TITLE: Ecology
PREREQUISITES: Biology
LENGTH: 1 Trimester

COURSE DESCRIPTION:

Ecology is a one trimester, college-level science class. The class is designed to provide students with a solid understanding of the ideas, concepts, principles, and connection in ecology. The following topics will be covered: 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.

- MATERIALS:**
1. Calculator/ 3-ring binder
 2. Books & reference materials in the Media Center
 3. Internet Access
 4. Textbook: Living in the Environment

COURSE TITLE: Forensic Science
PREREQUISITES: Biology or concurrent with Biology
LENGTH: 1 Trimester

COURSE DESCRIPTION:

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**

PREREQUISITES: Biology

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course is offered to students who have successfully completed Biology A and B. Emphasis will be on an overview of the Human Body Systems. Real-world applications of anatomy and physiology concepts will help students assess case study investigations presented with each system studied. Students will dissect a cat to reinforce concepts presented. Highly recommended for students interested in the medical field. Offered all trimesters.

Agriscience Curriculum

Class	Trimester	Credits
Intro to Agriscience	1	.5
Animal Science	1	.5
Animal Science 2	1	.5
Plant Science	1	.5
Natural Resources	1	.5
Landscape Horticulture	1	.5

COURSE TITLE: **Introduction to Agriscience**

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Students will be introduced to agriculture and agricultural education through units focusing on Animal Science, Plant Science, and Leadership. Within the Animal Science unit, students will be exposed to the animal agriculture industry and how it affects their everyday activities. Within the Plant Science unit, students will discuss the importance of plants to man and the environment. Finally the Leadership unit will introduce the students to the FFA organization and work to develop skills necessary for success in high school, college and beyond.

COURSE TITLE: **Animal Science**

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Students will be introduced to the industry of agriculture and it's 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.

- MATERIALS:**
1. Textbooks and classroom materials provided
 2. Animal Facility Laboratory

COURSE TITLE: **Animal Science 2**

PREREQUISITES: Animal Science

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

- MATERIALS:**
1. Textbooks and Classroom materials provided
 2. Internet access
 2. Agricultural Issues Project

COURSE TITLE: **Plant Science**

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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).

- MATERIALS:**
1. Textbooks & project materials will be provided
 2. Greenhouse Laboratories – Plant propagation & cloning

COURSE TITLE: **Natural Resources**

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Students will study the Natural Resources of area, focusing on the four main categories of Water, Soil, Forest, and Wildlife. Each unit will focus on background information about the resource and how our local community affects or is affected by that resource. Hands on projects and laboratories will be a major part of this class.

- MATERIALS:**
1. Textbooks and project materials provided
 2. Greenhouse laboratories – Soil Chemistry

COURSE TITLE: **Landscape Horticulture**

PREREQUISITES: Plant Science

LENGTH: 1 Trimester

COURSE DESCRIPTION:

Students will learn landscaping terms and symbols to be used in drawings. They will begin a series of sketches and drawings to use the terms and symbols. They will identify and classify common trees, shrubs, and vines used in Michigan landscapes by means of filmstrips, slides, and field trips to area nurseries and home landscapes. Students will continue to study plant material identification by seasonal markings. They will discuss lawn seed and fertilizer use, application rates and costs. Final drawings will show a complete home landscaping plan of plant materials with the cost estimates for the entire project.

- MATERIALS:**
1. Textbooks and reference materials provided
 2. Calculator
 3. **Hands-on Landscaping Project(s)**



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
Hist & American Culture	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

COURSE DESCRIPTION:

World History “A” examines events in civilization that have shaped ancient civilization. Topics include the Roman Empire, Mongol expansion, civilizations in the Americas, the establishment of Feudalism as a political and economic system in Europe. Other major topics include; the Renaissance, Reformation, Muslim civilizations, the Ottoman Empire and the establishment of Russia.

MATERIALS:

1. Text: World History Patterns of Civilization by Prentice Hall
2. Video and Internet Supplements
3. Newspaper magazines

COURSE NAME: Economics

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

MATERIALS:

1. Text: Economics: Principles In Action by Prentice Hall

COURSE TITLE: US History A

PREREQUISITES: World History A & Economics

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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 Americas conclusion of WWII.

COURSE TITLE: US History B
PREREQUISITES: World History A & Economics
LENGTH: 1 Trimester

COURSE DESCRIPTION:

US History III 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.

MATERIALS

1. Text: America: Pathways to the Present by Prentice Hall
2. Teacher generated handouts
3. Videotapes, library materials, and simulation/reenactments

COURSE TITLE: AP US History
PREREQUISITES: World History A & Economics
LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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.

MATERIALS:

1. Text: American Nation by Gacety
2. Supplements: Portrait of America by Oates

COURSE TITLE: US Current Issues
PREREQUISITES: US History A, US History B or AP US History
LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

MATERIALS:

1. Text: Current Issues
2. Supplements: Internet, newspapers, magazines, television, and the news.

COURSE TITLE: History & American Culture
PREREQUISITES: US History A, US History B or AP US History
LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course will examine the critical study of film versus historical accuracy. Formal, economic, social and historical aspects of films and reception in the U.S. will also be studied. This course will involve close textual analysis of historical importance and/or exemplary films. History and American Popular Culture will also develop an understanding of relationships between cinema and American culture. I am anticipating that we will watch between 5 & 7 films throughout the trimester long class. All of the films will be rated either PG-13 or R. Therefore, a parental consent form will be passed out at the beginning of the trimester and must be turned in before any films are viewed. If this could potentially be an issue you may want to consider signing up for a different course. The emphasis of the course will be on research, writing and developing the critical thinking skills to closely analyze these historically based films.

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.

COURSE TITLE: **Psychology**

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

MATERIALS: Understanding Psychology by Glencoe publishing

COURSE TITLE: **Child Psychology**

PREREQUISITES: Grades 10-12

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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.

COURSE TITLE: **World History “B”**

PREREQUISITES: US History A, US History B or AP US History

LENGTH: 1 Trimester

COURSE DESCRIPTION:

World History 2 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 revolutions of the 19th century, Imperialism, nation building, Russian Revolution and the rise of Nazi Germany. These events/people shape present ideas, perceptions and foreign relations.

MATERIALS: 1. Text: World History Patterns of Civilization by Prentice Hall

2. Video and Internet Supplements

3. Newspaper, magazines

COURSE TITLE: **American Government**

PREREQUISITES: World History B or AP European History

LENGTH: 1 Trimester

COURSE DESCRIPTION:

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 MEAP test.

MATERIALS: 1. Text: United States Government: Democracy in Action

2. Teacher and computer generated handouts, video tapes, and laser discs

COURSE TITLE: **AP American Government & Politics**

PREREQUISITES: World History B or AP European History

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

In this program students will learn the principles and processes of government in general, and the U.S. (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.

MATERIALS: Text book, supplements, and the Internet.

COURSE TITLE: **AP European History**

PREREQUISITES: US History A, US History B or AP US History

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

The Advanced Placement (AP) European History course covers Europe in depth from the end of the Middle Ages (the late 1300's – early 1400's), the Renaissance, the Reformation, the Age of Absolute Monarchs, and the French Revolution are highlighted with other topics also covered. The course covers events right into the early 1990's with the fall of the communist empire in Eastern Europe, including the collapse of the Soviet Union. The course is and students may earn accelerated college credit for their efforts through successful completion of the AP European History Exam which is offered in May.

COURSE TITLE: **AP Psychology**

PREREQUISITES: Grade 11 & 12

LENGTH: 3 Trimesters

COURSE DESCRIPTION:

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.



Technology Curriculum

Class	# of Trimesters	Credits
Grades 9 - 12		
Basic Shop Math Applications	1 trimester	.5
Woodworking Math Applications	1 trimester-(Can take more than once)	.5
Metal Math Applications	1 trimester-(Can take more than once)	.5
Building Trades Math Applications	1 trimester	.5
Engineering CAD (1-3)	1 trimester	.5
Architecture CAD	1 trimester	.5
Digital Photography 1 (Grades 10,11,12)	1 trimester	.5
Digital Photography 2	1 trimester	.5
Video Production	1 trimester	.5
Adv Video Production	1 trimester	.5
Television Media	3 Trimesters	1.5

COURSE TITLE: **Basic Shop Math Applications**

PREREQUISITES: None

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This comprehensive class replaces the former Materials Processing class. Basic Math Applications is a course that provides students experience in working with woods and metals using hand and machine processes which are currently used in the industrial setting. Students must take this class as the introductory class to:

Woodworking Math Application
Metal Math Applications
Building Trades Math applications

The class will cover all of the shop safety skills, tool mastery, and project design skills. The student will demonstrate proficiency in: angle measuring, fraction manipulation, one, two, three and four dimensional measuring, coast analysis and basic schematic drawing. The progress of students will be monitored so that they will begin with fundamentals and progress to higher skill levels as they exhibit proficiency.

COURSE TITLE: **Woodworking Math Applications**

PREREQUISITES: Basic Shop Math Applications

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This comprehensive class replaces the former Materials Processing class. Woodworking Math Applications is a course that provides students experience in working with woods using hand and machine processes which are currently used in the industrial setting. Using a derivative of the Scientific Method, students will demonstrate fine craftsmanship in the construction of at least one piece of furniture of their own design. The will also demonstrate mastery of the fundamental math skills: angle measuring, fraction manipulation, one, two, three and four dimensional measuring, coast analysis, and basic schematic drawing. **The class can be taken more than once.**

COURSE TITLE: **Metal Math Applications**

PREREQUISITES: Basic Shop Math Applications

LENGTH: 1 Trimester

COURSE DESCRIPTION:

This comprehensive class replaces the former Materials Processing class. Metal Math Applications is a course that provides students experience in working with metals using hand and machine

processes which are currently used in the industrial setting. Using a derivative of the Scientific Method, students will demonstrate fine craftsmanship in the construction of at least one piece of their own design. They will also demonstrate mastery of the fundamental math skills: angle measuring, fraction manipulation, one, two, three and four dimensional measuring, cost analysis, and basic schematic drawing. **The class can be taken more than once.**

COURSE TITLE: **Building Trades Math Applications**
PREREQUISITES: Basic Shop Math Applications/Woodworking Math Applications
LENGTH: 1 Trimester
GRADE LEVEL: 10-12

COURSE DESCRIPTION:
Building Trades Math Applications is a course that provides students experience in working with construction grade woods using hand and machine processes which are currently used in the industrial setting. This class involves home maintenance, repair, and construction. The areas may include: drywall, electric, cement, plumbing, and rough construction. Using a derivative of the Scientific Method, students will demonstrate fine craftsmanship in the construction of at least one piece of their own design. They will also demonstrate mastery of the fundamental math skills: angle measuring, fraction manipulation, one, two, three and four dimensional measuring, cost analysis, and basic schematic drawing. **The class can be taken more than once.**

COURSE TITLE: **Engineering CAD**
PREREQUISITES: None
LENGTH: 1 Trimester

COURSE DESCRIPTION:
This course introduces computer-aided drafting (CAD). Students use AutoCAD to design objects and create drawings. The course shows how to use AutoCAD to set up drawings and construct lines, circles, arcs, other shapes, geometric constructions, dimensioning and text. Students will complete introductory drawing as well as a large design project in which students get to use their own creativity to complete the task.

MATERIALS: 1. Auto CAD 2000 by Terry T. Wohlers

COURSE TITLE: **Engineering CAD 2**
PREREQUISITES: Engineering CAD
LENGTH: 1 Trimester

COURSE DESCRIPTION:
This course introduces students to parametric solid modeling. Using Solidworks software, students will learn the basics of three-dimensional modeling. Students will become familiar with extrusion, cutting, sweeps, lofts, work planes, axis, and thinking in a three-dimensional space. Students will complete introductory drawings, assemblies, as well as the popular Lego design project.

COURSE TITLE: **Engineering CAD 3**
PREREQUISITES: Engineering CAD 2
LENGTH: 1 Trimester

COURSE DESCRIPTION:
This class expands on what students learned in CAD 2. Students will get an introduction to the Engineering industry as they use Solidworks to complete large design projects. Class work will include individual as well as group projects. Students will often be working on projects that involve engineering an existing object or inventing an entirely new one. The class as a whole will design a large project of their choosing which will ultimately be built and used. Projects in the past have included arcade machines, flight simulators, and a racing simulator. Students will also become familiar with setting up working drawings, large assemblies, and presentation animations.

COURSE TITLE: **Architecture CAD**
PREREQUISITES: Strong interest in architectural design
LENGTH: 1 Trimester

COURSE DESCRIPTION:

This class introduces students to Architectural Design and Interior Design. Students learn the basics in residential architectural drawing and design and construction practices. Students will use Chief Architect software to design and draw a residential house plan. This software teaches students architectural CAD using parametric modeling practices. Students will design floor plans, three-dimensional views, elevations, detail drawings, and animated walk-through of their house. Using Chief Architect, students will get an introduction to interior design as well.

COURSE TITLE: **Digital Photography 1**
PREREQUISITES: Grade 10, 11 or 12
LENGTH: 1 Trimester

COURSE DESCRIPTION:

This is an introductory course to digital photography. The course goal if Digital Photography 1 is to teach students care and handling of a digital SLR camera, principles of lighting and composition, photojournalism, digital darkroom techniques and presentation. Students will also be presented with an overview of the history of photography as well as careers in photography. Students will use Adobe Lightroom and Adobe Photoshop throughout the class.

COURSE TITLE: **Digital Photography 2**
PREREQUISITES: Digital Photography 1
LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course expands on what students learned in Digital Photography 1. Students will learn advanced techniques in camera handling, composition, lighting, photojournalism, digital darkroom techniques and multimedia presentation. Students will also assemble and present a final portfolio.

COURSE TITLE: **Video Production**
PREREQUISITES: None
LENGTH: 1 Trimester

COURSE DESCRIPTION:

This class is designed to give students an introduction to video production, including writing, videotaping, video editing, on-camera reporting and information acquisition. Topics covered include storyboarding, scripting, and composition. Projects will allow students to be creative and learn how to use digital video cameras and editing software. Software used throughout the class includes Adobe Premiere Pro, After Effects, Soundbooth, and Encore. This class satisfies the fine arts graduation requirement.

COURSE TITLE: **Adv Video Production**
PREREQUISITES: Video Production
LENGTH: 1 Trimester. Students may take Advanced Video Production Multiple Times

COURSE DESCRIPTION:

This class explores advanced editing, special effects, and music creation among other skills. Students will work on longer projects including some independent productions of their own choosing. Students may work on the Red Arrow Report news show. Students must be in good standing with the Video Production department and school administration in order to be approved for this class.

COURSE TITLE: **Television Media**
PREREQUISITES: Video Production & strong interest in working in a television studio
LENGTH: 3 Trimesters

COURSE DESCRIPTION:

Media Productions 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

Library Science Department

COURSE TITLE: **Library Media Studies**
PREREQUISITES: 11th Or 12th grade only. “B” or better in 9th & 10th grade ELA classes.
LENGTH: 1 Trimester

COURSE DESCRIPTION:

This course provides training in computer-based and print material research and managing library media center materials and equipment. Students complete a variety of online and library assignments that involve locating and selecting materials, examining and evaluating information and presenting results in different formats including spreadsheets, word processing documents and presentation documents. As a component of this class, students are required to enroll online and complete many assignments through Moodle.



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

In the past, special education students may have had “team taught” classes to meet their academic needs while in the general education setting. Currently, Lowell High School has implemented a consultant model. Each curricular area has a special education teacher assigned to support the special education students in that subject matter. These consultants, rather than being assigned every day to specific classes, have the flexibility to move from class to class to give assistance where needed.

We also offer departmental classes in Math and English 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 supports and instruction to develop mastery of the grade-level content.

Academic Support Courses

Academic support courses are 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 re-teaching 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.

Self- Contained Cognitively Impaired Program

The cognitively impaired self-contained classroom is designed for students that need rigorous academic support. The program attempts to remediate in all academic areas and provide a meaningful high school experience. The program provides direct instruction at the functioning level of the student. A large component of the CI program is vocational education. Community based instruction (CBI) is a transition focused class for special education CI students. In this class students are placed on job sites in the community several hours per week in order to gain successful employment experiences. The teacher is highly involved and collaborates with the employers to ensure the students are growing and gaining valuable skills. Students are prepared for the high school transition to other intermediate programs (KTC, KVO, and CBOT) or the world of work.