

2015-2016

COURSE PLANNING GUIDE



LOGAN HIGH SCHOOL
14470 St. Rt. 328, Logan, OH 43138
(740) 385-2069

Our mission: Motivate! Educate! Graduate!

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LOGAN HIGH SCHOOL PHONE DIRECTORY

(740) 385-2069

Administration	Ext. 0
Jim Robinson, Principal	Ext. 1624
Rob Ramage, Assistant Principal	Ext. 1610
Josh Straus, Assistant Principal	Ext. 1609
Amy Reichling, Administrative Assistant	Ext. 1606
Athletics	Ext. 4
Theresa Schultheiss, Athletic Director	Ext. 1608
Wendy Cook, Administrative Assistant	Ext. 1611
Attendance/Nurse Office	Ext. 2
Kathy Kennard, School Nurse	Ext. 1602
Brenda Fox, Administrative Assistance	Ext. 1601
Guidance Office	Ext. 3
Marideth Rock (Students A-G)	Ext. 1618
Jane Hall (Students H-Q)	Ext. 1603
Kim Norway (Students R-Z)	Ext. 1604
Debi Tootle, Administrative Assistant	Ext. 1600
Library/Technology	Ext. 5
Jarrold Crawford, Technician	Ext. 1629
Pam Kilkenny, Administrative Assistance	Ext. 1631
Brenda Lemon, Librarian	Ext. 1627
Christina Miller, Educational Aide	Ext. 1628
Food Service	Ext. 6
Juli Varsanyi, Food Service Director	Ext. 1613
Marie Brown, Administrative Assistant	Ext. 1614
Staff Directory	Ext. 9
Tri-County Career Center	740-753-3511
Transportation	740-385-7844
Board Office	740-385-8517

COURSE PLANNING AND POLICIES

This guide has been prepared to inform pupils and parents of the considerations and procedures involved in the process of program planning for the next school year. Our approach is to provide ample information and counseling service to enable the pupil and his/her parents to make wise decisions in planning a program that will provide a meaningful, successful, and educational experience. We urge parents and pupils to be involved in the course selection procedure, giving careful attention to the information and assistance we provide.

The scheduling process is an important part of the student's educational program. Great care should be given to the selection of courses and the development of a sound academic program. It is important the students understand the courses they select for the coming school year will be final.

In the weeks ahead, our counselors will be working with students individually and in groups to develop an effective program. In addition, the counselors will be happy to talk with parents who have special concerns.

We wish to emphasize that our purpose is to provide information, assistance, and appropriate recommendations to help pupils with course selections. Decisions about the selection of courses will be the responsibility of the pupil and his/her parents. These are important decisions that can have a great impact on the pupil's educational progress; therefore, such decisions should be made carefully.

COURSE PLANNING/REGISTRATION PROCEDURE

1. Study the requirements for graduation from Logan High School.
2. Be aware of the classes that are required at each grade level.
3. Review and research the electives.
4. Develop a sequence of required and elective subjects that will meet graduation requirements and facilitate post graduation plans, either college or vocational.
5. Discuss course selections with teachers.
6. Consult with your counselor.
7. Complete a registration sheet using the course descriptions in this booklet.
8. The final selection of courses is made by the student and his/her parents. In order to do this they must take into account local and state mandates, interests, abilities, and plans for the future. If there is a difference of opinion concerning the pupil's program, the counselor should be consulted. Decisions are final and schedules will only be changed when absolutely necessary.

COURSE LOAD

In the best interest of the social, physical and intellectual well-being of the student, the number of courses and activities carried by a student shall be determined on the basis of her/his needs, interests, and capabilities. However, each student is encouraged to take seven (7) credits of course work. This rule applies for each year regardless of the total number of credits he/she has already earned. We encourage all students to take a challenging and rewarding series of courses.

GRADE LEVEL DETERMINATION

The grade level of each student will be determined by the following number of credits, which must be completed by the beginning of the school year.

9 th Grade	Promotion or placement from eighth grade
10 th Grade	4.0 Credits
11 th Grade	9.5 Credits
12 th Grade	14.5 Credits – or able to schedule a sufficient amount of credit to graduate

Exceptions to the above rule: Selected students may be placed in the grade that they would be in according to their age grouping and years of normal progression from grade-to-grade. This will only be done with the approval of the principal. These students will remain in the "holding pattern" as juniors until they earn enough credits to become seniors.

REGISTRATION/SCHEDULE CHANGES

It is the policy of Logan High School to provide every opportunity for the student and his/her parents to be involved in the process of course selection. Because students participate in the selection of their courses, they will be required to honor those choices and follow their prepared schedule.

Students are given the opportunity to select courses at the time of class registration. They are then given a second opportunity to review and alter those selections.

After student schedules are printed, it becomes a difficult and time-consuming task to make further alterations. Class size is also an important factor in limiting schedule changes at this point. Therefore, we caution students to think very carefully about the programs and classes they are selecting for the coming school year.

The following are conditions appropriate for a schedule change:

1. The student has failed a prerequisite for a course.
2. The student lacks state or local required credits.
3. When there is a scheduling error, and the school is at fault.
4. Upgrading in an academic program. Example: The student registered for Integrated Math I, and now requests Algebra I. If the student's academic history and ability support such a change, it will be done.
5. Downgrading in an academic program. Example: The student registered for Algebra I and requests Integrated Math I. The student's academic history and ability must support such a change. The classroom teacher must recommend that such a change would be academically advantageous to the student.
6. Adding an elective subject. This will only be done when:
 - a) There is space available in the requested subject.
 - b) The subject to be added will replace a study hall within the same time period. Example: The student wants to add Art period five and has a study hall that period. If space were available in Art that period, the request would be honored.
 - c) Such a change must be done within the first five (5) days of the school year or semester, depending upon the course to be added.
 - d) The course to be added will not create an overload of credits or values.
7. Withdrawing from a course. This will be permitted without penalty within the first ten (10) days of the school year and at the semester change for courses beginning at that time (students wishing to drop out of Senior Band will have ten days beginning at the start of Pre-Band Camp). If a student withdraws from a course beyond this time limit, he/she will receive a final grade of "WF, withdraw fail" and no credit for the course. This penalty does not go into effect until the beginning of the second grading period for students enrolled in French I, Spanish I or Algebra II. Any student withdrawing after these dates may appeal the final grade. This appeal must be submitted in writing to the high school principal.

COURSE OFFERINGS/COURSE CONFLICTS/COURSE CANCELLATIONS

Single course offerings refer to a course that is offered only once during the school year. The capacity of the school to offer a course more than once is influenced by course requests, enrollment, resource allocations and staff deployment. Although we do our best to avoid the majority of conflicts in the timetable, some will occur and it may be necessary for a student to choose between two courses. If there are insufficient requests for a course, the school reserves the right not to offer the course.

Course requests and enrollment will inform the design of the timetable, resource allocations and staff deployment. If enrollment is not sufficient to justify deployment of staff and delivery of the course, the school reserves the right to cancel a section of a course or full course. In the event a course is cancelled, the school counselors will be in contact with the student to make the necessary changes.

FORMULA TO CALCULATE CUMULATIVE GPA

For the calculation of Cumulative Grade Point Average only the final grade of each class is used. This final grade, actually the point value for that grade, is multiplied by the amount of credit for that class to determine points for that course. To calculate Cumulative Grade Point Average you would divide Total Points by Total Credits. For example: a B in a full credit class will earn 3 points (B = 3 times 1.0 credit earns 3 points). A grade of B in a half-credit class will earn 1.5 points (B = 3 times .5 credit = 1.5 points). A sum of 15 points divided by 5 credits will give you a 3.0 GPA.

To determine the Weighted Cumulative GPA, we take the student's Cumulative GPA and add .05 for all AP Courses and Biomedical Innovations. (See the list of all weighted courses below.) Therefore, if a student had a Cumulative GPA of 4.0 and took five (5) AP classes the math would look like this: $4.0 + (5 \times .05) = 4.25$ as the Weighted Cumulative GPA.

WEIGHTED CLASSES

Weighted credit will only be awarded to Grades 11 and 12 Advanced level courses.

AP English 3 (.05)	AP Chemistry (.05)
AP English 4 (.05)	Biomed Innovations (.05)
AP Physics (.05)	AP Biology (.05)
AP US Government and Politics (.05)	AP Art (.05)
AP Calculus (.05)	AP Environmental Science (.05)

Students who transfer to Logan High School and have taken classes that are comparable in content to Weighted Classes offered at Logan High School will receive weighted credit for these classes. Before this can be done the counselor must verify this information either via the student transcript or by contacting the other school.

ACADEMIC RECOGNITION FOR GRADUATION

Policy for academic recognition at Graduation Ceremony

1. The use of cumulative grade point average through the seventh semester to determine placement in diploma recognition groups.

Designation

Summa Cum Lade	4.10 and up
Magna Cum Lade	3.85-4.099
Cum Lade	3.50-3.849

2. All Summa Cum Lade students are eligible to be a speaker the graduation ceremony. Interested eligible students must submit their name for the speech lottery. Graduation speakers will be selected by lottery from the list of eligible students who have submitted their name. The specific speech to be given will be determined by the order of selection. Example: First student chooses from 5 possible speeches, second student chooses from remaining 4 selections, etc.

GRADING SCALE

Since education is concerned with developing the maximum achievement in every child in accordance with his/her abilities, Logan High School shall continuously evaluate the progress of youngsters and report to parents and students. Each grading period students are to receive a written evaluation in the form of an interim report and report card.

- The following system grading system shall be used:

Accumulative Average	Percentage Scale	Point Value Scale
A = 4.00	A = 93 - 100	A = 3.833 - 4.000
A- = 3.67	A- = 90 - 92	A- = 3.500 - 3.832
B+ = 3.33	B+ = 87- 89	B+ = 3.167 - 3.499
B = 3.00	B = 83 - 86	B = 2.833 - 3.166
B- = 2.67	B- = 80 - 82	B- = 2.500 - 2.832
C+ = 2.33	C+ = 77- 79	C+ = 2.167 - 2.499
C = 2.00	C = 73 - 76	C = 1.833 - 2.166
C- = 1.67	C- = 70 - 72	C- = 1.500 - 1.832
D+ = 1.33	D+ = 67 - 69	D+ = 1.167 - 1.499
D = 1.00	D = 60 - 66	D = .800 - 1.166
F = 0	F = 0 - 59	F = 0.000 - 0.799

- A student must pass three grading periods to pass a full year course.
- A student who fails both grading periods of a semester class will fail the course.
- Final class grades are determined by using the point values for each letter grade. An example of how a student's grade is determined in a particular class can be found in the next section.

GRADE CALCULATIONS

SEMESTER CLASS

1st	9 weeks	C-	is	1.67	x	2	=	3.34
1 st	Quarter Exam	D+	is	1.33	x	.5	=	.665
2 nd	9 weeks	D	is	1.00	x	2	=	2.00
2 nd	Quarter Exam	D	is	1.0	x	.5	=	.500
				5			=	6.505

6.605 divided by 5 is 1.301. The final grade is a D+.

Please note, if a student receives the following grades,

1 st	9 weeks	=	F
2 nd	9 weeks	=	D

the student will need a C average or better exam to pass the class.

1 st Quarter Exam	C	is	1.0	x	.5	=	.500
2 nd Quarter Exam	C	is	1.0	x	.5	=	.500

FULL YEAR CLASS

1 st	9 weeks	B-	is	2.67	x 2 =	5.34
1 st Quarter Exam		F	is	0.00	x .5 =	0.00
2 nd	9 weeks	C	is	2.00	x 2 =	4.00
2 nd Quarter Exam		F	is	0.00	x .5 =	0.00
3 rd	9 weeks	C+	is	2.33	x 2 =	4.66
3 rd Quarter Exam		C	is	2.00	x .5 =	1.00
4 th	9 weeks	D+	is	1.33	x 2 =	2.66
4 th Quarter Exam		C	is	2.00	x .5 =	1.00
						10 = 18.66

18.66 divided by 10 is 1.866. The final grade is a C.

A student must receive a .800 to pass a class.

5. Quarterly Exams

Students will be given a quarterly exam at the end of each nine-week grading period, specific dates to be determined by the principal. Early exams will not be given without written permission from the principal. Exemptions from quarterly exams are as follows:

- Juniors and Seniors may get exempted from their fourth quarter exam by obtaining an A in the fourth nine week grading period, as well as, in all previous nine week grading period, and an A on the semester exam.
- Sophomores may be exempted from the fourth quarter exam based on their performance on the Ohio Graduation Test.
- Freshmen will not be exempted from any quarterly exams.

*****There are no exemptions from exams in the semester classes.

HOW TO CALCULATE A COURSE GRADE

The following table demonstrates how a weighted grade is calculated. The percentage in each category is multiplied by its respective weight. The sum of these contributions is the total grade percentage.

Category Name	Percentage in Category		Weight of Category	Contribution
Homework	93%	x	.30	0.279
Quiz/Test	88%	x	.50	0.440
Exam	91%	x	.20	0.182
				.901
Total				90.1%

HONOR ROLL/MERIT ROLL

Honor and Merit Rolls will be published following each nine weeks grading period. To be eligible for the Honor Roll, a student must maintain an academic average of 3.5 or better. The Merit Roll will consist of those students who maintain a 3.0 – 3.49 academic average. Students will not be placed on the rolls if they obtain a grade lower than a “C-“ in a course.

ADMISSION REQUIREMENTS FOR COLLEGE ACCEPTANCE

When students are planning their freshman courses and high school program, they should be aware of the admissions and scholarship criteria employed by colleges. Thoughtful planning will enable students to present colleges with a positive portrayal of themselves.

The most challenging job for college admissions committees is selecting a well-balanced class for each school year. Admissions officers view the high school transcript as crucial, because it documents a student's academic progress throughout high school. Colleges prefer consistently high academic achievement or an improvement in grades throughout one's high school career. Admissions officers not only examine a student's grade point average, but also pay particular attention to the specific courses selected by the candidate. Another related indicator of student success is class rank. Some colleges and universities mandate that candidates rank in the top ten or fifteen percent of their class

Scores obtained on college-entrance examinations are additional indicators of potential success in higher education. Since many colleges require certain minimum scores for admission, students should take these exams and take them seriously. In the tenth grade Logan High School students take the PLAN (pre-ACT). In the eleventh grade, Logan High School students take the PSAT exam in October. By the end of the junior year students should have taken the ACT and/or SAT if required by schools to which the student is applying.

In addition to the academic profile of a student, colleges express interest in a student's activities, volunteer community involvement and/or work experience. Participation in an activity for several consecutive years often indicates an in-depth commitment to a program and may be viewed more positively than engaging in many activities over short periods of time. Admission officers highly regard continuity of activities.

MINIMUM COLLEGE REQUIREMENTS

() recommended number of units for strong preparation

4 units of English
3 (4) units of Math
3 units of natural Science with significant lab experience
3 units of Social Sciences
2 (3) units of a Foreign Language
1 unit of a Visual or Performing Arts
1 additional unit of the above courses

**Students exceeding the minimum curriculum in Math, Science, or Foreign Language will be given additional consideration.

GRADUATION REQUIREMENTS 2016, 2017

The Logan-Hocking County Board of Education desires that its standards for graduation meet the minimum standards of the Ohio Department of Education as well as those of the North Central Association of Colleges and Secondary Schools, and further, that our high school will compare favorably with high schools in the state recognized for their excellence.

OHIO CORE PATHWAY (College Prep)

Students must meet both testing requirements and curriculum requirements in order to earn a diploma. These requirements apply to students entering their freshman year in 2010 and beyond. See the two checklists below for more information about these two diploma requirements. The third section provides information about an alternative way to meet the testing requirements.

I. Curriculum Requirements

<u>COURSES</u>	<u>LOGAN HIGH SCHOOL</u>
English language arts	4 units
Health	1/2 unit
Test Prep	1 unit
Mathematics	4 units ¹
Physical education	1/2 unit ²
Science	3 units ³
Social studies	3 units ⁴
Electives	6 units ⁵
Other requirements ⁶	
Financial literacy ⁶	Requirement met in: 4400, 4410 or 4780.
Fine arts ⁶	Requirement met in <u>6750, 6760 & 6780</u> in the middle school, or Art courses-8050,8070,8080,8090,8100,8110,8120,8130,8140, or Theater Art courses-8200,8210, 8220, 8230, 8250, or Choir courses 8340, 8360, 8380, 8400, 8450, or band-8600 at the high school level.
Total Credits Required	22 units

¹ Mathematics units must include 1 unit of algebra II or the equivalent of Algebra II.

² The Ohio Core allows school districts to adopt a policy that would exempt students who participate in interscholastic athletics, band or cheerleading for two full seasons from the physical education requirement. Students must take another course of at least 60 contact hours in its place.

³ Science units must include 1 unit of physical sciences, 1 unit of life sciences and 1 unit advanced study in one or more of the following sciences: chemistry, physics, or other physical science; advanced biology or other life science; astronomy, physical geology, or other earth or space science.

⁴ Social studies units must include 1/2 unit of American history and 1/2 unit of American government.

⁵ Electives units must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

⁶ All students must receive instruction in economics and financial literacy during grades 9-12 and must complete at least two semesters of fine arts taken any time in grades 7-12. Students following a career-technical pathway are exempted from the fine arts requirement.

** and pass all five parts of the Ohio Graduation Test (OGT) or:[§ 3313.61.5] § 3313.615 Alternative conditions for eligibility for diploma where person passes all but one graduation test.

OHIO CORE OPT OUT (CAREER-TECHNICAL PATHWAY)

Students entering ninth grade on or after July 1, 2010, and before July 1, 2014, may qualify for participation in the Ohio Core Opt Out program. Eligible students may graduate without having completed the Ohio Core curriculum prescribed by State law. Students wishing to participate in this program must have attended high school for two years.

A student wishing to participate and his or her parent(s) or guardian must sign and file written consent to the student's graduating without completion of the Ohio Core curriculum and acknowledgement that one consequence of failure to complete the Ohio Core curriculum is ineligibility to enroll in most state universities in Ohio without further coursework.

The minimum requirements for graduation from high school under the Ohio Core Opt Out are as follows.

Minimum

English Language Arts	4 units
Social Studies, including one-half unit of American History and one-half unit of American Government	3 units
Science, including one unit each in Physical Science and Biology	3 units
Mathematics	3 units
Health	½ unit
Physical Education	½ unit
Electives *	<u>8 units</u>
Total	22 units

* Each student's electives shall include at least one unit, or two half units chosen from among the areas of business/technology, fine arts, and/or foreign language.

The District retains the authority to increase these minimum requirements in compliance with State law. Under State law, the District may stipulate any of the following:

1. a minimum high school curriculum that requires more than 20 units of academic credit to graduate;
2. an exception to the district's minimum high school curriculum that is similar to the Ohio Core Graduation Opt Out, but with additional requirements, which may include the requirement that the student successfully complete more than the minimum curriculum listed above or
3. that no exception comparable to the Ohio Core Graduation Opt out is available within the District.

The student and parent/guardian must also agree to fulfill any procedural requirements stipulated by the school to ensure informed consent and facilitate orderly filing of statements required under State law.

Additionally, participation in the program requires the student, the student's parent or guardian and a representative of the student's high school to jointly develop an individual career plan for the student. The student's individual career plan must specify that the student will do one of the following:

1. matriculate to a two-year degree program;
2. acquire a business and industry credential or
3. enter an apprenticeship.

The student's high school provides counseling and support for the student related to the student's individual career plan during the remainder of the student's high school experience.

GRADUATION TEST REQUIREMENTS (OGT) Class of 2016, 2017, 2018

This section shall apply to diplomas awarded after September 15, 2006, to students who are required to take the five Ohio graduation tests prescribed by division (B) of section 3301.0710 [3301.07.10] of the Revised Code.

(A) As an alternative to the requirement that a person attain the scores designated under division (B) of section 3301.0710 [3301.07.10] of the Revised Code on all the tests required under that division in order to be eligible for a high school diploma or an honors diploma under sections 3313.61, 3313.612 [3313.61.2], or 3325.08 of the Revised Code or for a diploma of adult education under section 3313.611 [3313.61.1] of the Revised Code, a person who has attained at least the applicable scores designated under division (B) of section 3301.0710 [3301.07.10] of the Revised Code on all but one of the tests required by that division and from which the person was not excused or exempted, pursuant to division (H) or (L) of section 3313.61, division (B) of section 3313.612 [3313.61.2], or section 3313.532 [3313.53.2] of the Revised Code, may be awarded a diploma or honors diploma if the person has satisfied all of the following conditions:

- (1) On the one test required under division (B) of section 3301.0710 [3301.07.10] of the Revised Code for which the person failed to attain the designated score, the person missed that score by ten points or less;
- (2) Has a ninety-seven percent school attendance rate in each of the last four school years, excluding any excused absences;
- (3) Has not been expelled from school under section 3313.66 of the Revised Code in any of the last four school years;
- (4) Has a grade point average of at least 2.5 out of 4.0, or its equivalent as designated in rules adopted by the state board of education in the subject area of the test required under division (B) of section 3301.0710 [3301.07.10] of the Revised Code for which the person failed to attain the designated score;
- (5) Has completed the high school curriculum requirements prescribed in section 3313.603 [3313.60.3] of the Revised Code in the subject area described in division (A)(4) of this section;
- (6) Has taken advantage of any intervention programs provided by the school district or school in the subject area described in division (A)(4) of this section and has a ninety-seven per cent attendance rate, excluding any excused absences, in any of those programs that are provided at times beyond the normal school day, school week, or school year or has received comparable intervention services from a source other than the school district or school;
- (7) Holds a letter recommending graduation from each of the person's high school teachers in the subject area described in division (A)(4) of this section and from the person's high school principal.

(B) The state board of education shall establish rules designating grade point averages equivalent to the average specified in division (A)(4) of this section for use by school districts and schools with different grading systems.

(C) Any student who is exempt from attaining the applicable score designated under division (B)(1) of section 3301.0710 of the Revised Code on the Ohio graduation test in social studies pursuant to division (H) of section 3313.61 or division (B) (2) of section 3313.612 of the Revised Code shall not qualify for a high school diploma under this section, unless, notwithstanding the exemption, the student attains the applicable score on that assessment. If the student attains the applicable score on that assessment, the student may qualify for a diploma under this section in the same manner as any other student who is required to take the five Ohio graduation tests prescribed by division (B)(1) of section 3301.0710 of the Revised Code.

Amended by 128th General Assembly File No. 9, HB 1, §101.01, eff. 10/16/2009.

Effective Date: 09-11-2001; 04-04-2007; 2007 HB119 06-30-2007



What It Takes to Earn an Ohio Diploma

Graduating Classes of 2014, 2015, 2016, 2017

Students must meet both testing requirements and curriculum requirements in order to earn a diploma. These new graduation requirements apply to students who entered ninth grade before July 1, 2014. See the information below for more information about these two diploma requirements. The third section provides information about an alternative way to meet the testing requirements.

Curriculum Requirements

CURRICULUM REQUIREMENTS	STATE MINIMUM	ADDITIONAL LOCAL CREDITS	CREDITS EARNED TO DATE	CREDITS REMAINING	HONORS DIPLOMA CREDITS
English language arts	4 units	_____	_____	_____	_____
Health	½ unit	_____	_____	_____	_____
Mathematics	4 units ¹	_____	_____	_____	_____
Physical education	½ unit ²	_____	_____	_____	_____
Science	3 units ³	_____	_____	_____	_____
Social studies	3 units ⁴	_____	_____	_____	_____
Electives	5 units ⁵	_____	_____	_____	_____
Other Requirements					
Economics and financial literacy⁶	Requirement met in _____ class/grade level.				
Fine Arts⁶	Requirement met in _____ class/grade level.				

¹ Mathematics units must include 1 unit of algebra II or the equivalent of algebra II.

² School districts may adopt a policy that would exempt students who, during high school, participate in interscholastic athletics, band or cheerleading for two full seasons or an approved Junior Reserve Officer Training Corps (JROTC) program for two years from the physical education requirement. Students must take another course of at least 60 contact hours in its place.

³ Science units must include 1 unit of physical sciences, 1 unit of life sciences and 1 unit advanced study in one or more of the following sciences: chemistry, physics, or other physical science; advanced biology or other life science; astronomy, physical geology, or other earth or space science.

⁴ Social studies units must include ½ unit of American history and ½ unit of American government.

⁵ Electives units must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

⁶ All students must receive instruction in economics and financial literacy during grades 9-12 and must complete at least two semesters of fine arts taken any time in grades 7-12. Students following a career-technical pathway are exempted from the fine arts requirement.

GRADUATION REQUIREMENTS 2018 - Beyond

Required Courses

The new requirements did not change the current courses or number of course credits that students must complete to be eligible for graduation.

Assessments

In addition to course credits, students will earn points toward graduation on seven end-of-course exams. These exams will replace the Ohio Graduation Tests.

The courses in which students take an end-of-course exam will be: English I and II, algebra I, geometry, integrated math I and II, physical science, American history and American government. Beginning in 2015-16 districts may have the option to use the state end-of-course exams to replace their current course final exams and use the state's test as part of the class grade. This will help avoid double testing in future years.

Students can earn from 1-5 points for each exam, based on their performance.

5 – Advanced 4 – Accelerated 3 – Proficient 2 – Basic 1 – Limited

Students who take physical science, American history or American government as part of Advanced Placement, International Baccalaureate or college dual credit programs can use their scores from the programs' end-of-course exams in place of the state end-of-course exam scores to accumulate graduation points.

A student who earned high school credit in any of the above courses before July 1, 2014, automatically will receive a score of three points per course exam toward the total points needed for graduation. Middle school students this year who take one of these courses for high school credit must take the corresponding state end-of-course exam in this school year.

Exam Retakes

Students that score below proficient on an exam may retake it after they receive some extra help on the material. Students that score proficient or higher on an end of course exam can retake exams only if, once they take all the exams, they have not met the minimum graduation points to graduate. In this case, a student can retake any exam after receiving some extra help on the material. The same rules apply to substitute exams, which may be used interchangeably with approved tests.

Graduation Points

With few exceptions, students must accumulate a minimum of 18 points from scores on their end of course exams to become eligible for a diploma.

More Flexibility for Students and Families

Students who do not earn the required number of graduation points can still meet the requirements for a diploma if they earn a remediation-free score on a national college admission test. This assessment will be given to students free of charge in the fall of their junior year starting with the graduating class of 2018.

Students also can qualify for graduation by earning an approved industry-recognized credential and achieving a workforce-readiness score on a related job skills assessment. The selection of those assessments is in progress.



New High School Graduation Requirements Beginning with the Class of 2018

House Bill 487 updated Ohio's graduation requirements to ensure that all students are ready for success in college and work. As a result, the Class of 2017 (10th-graders in the 2014-2015 school year) will be the last students to take the current Ohio Graduation Tests. The new requirements take effect with students entering ninth grade in the 2014-2015 school year (Class of 2018). Additionally, every student in the Class of 2018 and beyond will have the opportunity to take a nationally-recognized college admission exam free of charge in Grade 11. The honors diploma remains another option for students.

Unchanged

Complete Ohio Course Requirements	State Minimum
English language arts	4 units
Health	½ unit
Mathematics	4 units ¹
Physical education	½ unit ²
Science	3 units ³
Social studies	3 units ⁴
Electives	5 units ⁵
Other Requirements	
Economics and financial literacy ⁶	
Fine arts ⁶	



New

All students take end-of-course exams:

- Algebra I⁷ and geometry or integrated math I and II
- Physical science
- American history and American government
- English I and English II

Students studying Advanced Placement (AP), International Baccalaureate (IB) or taking dual enrollment courses in physical science, American history or American government may take assessments aligned to those courses in lieu of end-of-course exams to avoid double testing.



New

And meet one of the following three:

- 1** Earn a cumulative passing score on seven end-of-course exams. The scores will be set by the State Board of Education.
- 2** Earn a "remediation-free" score on a nationally recognized college admission exam such as ACT or SAT. The state of Ohio will pay for all 11th-grade students in the Class of 2018 and beyond to take the exam free of charge.
- 3** Earn a State Board of Education-approved, industry-recognized credential or a state-issued license for practice in a career and achieve a score that demonstrates workforce readiness and employability on a job skills assessment.

¹Mathematics units must include one unit of algebra II or the equivalent of algebra II. Students on a Student Success Plan may be exempted from taking algebra II.

²School districts may adopt a policy that would exempt students who participate in interscholastic athletics, marching band or cheerleading for two full seasons or an approved Junior Reserve Officer Training Corps (JROTC) program for two years from the physical education requirement. Students must take another course, which cannot be a physical education course, of at least 60 contact hours.

³Science units must include one unit of physical sciences, one unit of life sciences and one unit advanced study in one or more of the following sciences: chemistry, physics or other physical science; advanced biology or other life science; astronomy, physical geology or other earth or space science. Students on a Student Success Plan may be exempted from advanced study in science.

⁴Social studies units must include ½ unit of American history and ½ unit of American government.

⁵Electives units must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

⁶All students must receive instruction in economics and financial literacy during Grades 9-12 and must complete at least two semesters of fine arts taken any time in Grades 7-12. Students following a career-technical pathway are exempted from the fine arts requirement.

⁷The State Board of Education may decide to include an algebra II end-of-course examination in place of the algebra I end of course exam beginning for students entering ninth grade on or after July 1, 2016.

ACADEMIC OPTIONS

ADVANCED PLACEMENT CLASSES

Advanced Placement (AP) classes are designed to offer higher-level students the opportunity to be taught academic material at the college level. An end of course Advanced Placement Examination is required with the opportunity for students to earn college credit based upon test scores.

Admission requirements for courses at this level might include the following criteria:

1. A commitment to academic achievement.
2. A grade point average of “B” or higher.
3. An understanding and acceptance of the time the courses involve, both in terms of study time and homework.
4. Teacher and counselor recommendations.
5. In English classes, a sample of the student’s writing in an essay.
6. In some cases, a teacher interview.
7. Performance on academic achievement tests.
8. Parental approval and support.
9. Successful completion of prerequisite courses.
10. An understanding that the student must take the AP exam in May.

GETTING COLLEGE CREDIT FOR AP COURSES:

Over 90% of 4-year colleges in the U.S. provide credit and/or advanced placement for qualifying scores.

AP Exam scores are reported on a 5-point scale as follows:

- 5 Extremely well qualified*
- 4 Well qualified*
- 3 Qualified*
- 2 Possibly qualified**
- 1 No recommendation**

*Qualified to receive college credit or advanced placement

**No recommendation to receive college credit or advanced placement

Individual colleges and universities, not the College Board or the AP Program, grant course credit and placement. Because it varies from school to school, you should obtain a college's AP policy in writing. You can find this information in the institution's catalogue or on its Web site, or by using collegeboard.com's [AP Credit Policy Info](#) search.

Colleges that have received your AP Score Report will generally notify you of any placement, credit, and exemption you have earned during the summer. You can also contact the college's admissions office to find out the status of your AP credits.

Additional information about AP Classes and Exams can be found on the College Board website, www.collegeboard.com.

AP COURSE WITHDRAW AND COURSE LOAD

Withdraw Policy: Students who select an AP class and choose to drop the course after June 1st will receive a WITHDRAW FAIL (WF) in the course for the year, and will be placed in an *available* course to fulfill graduation requirements. **NO EXCEPTIONS!**

Recommendations: It is recommended that students do not take more than **3** AP courses per year.

WHAT'S CHANGING IN OHIO EDUCATION

College Credit Plus

Beginning in the 2015-2016 school year, College Credit Plus will be Ohio's dual enrollment program.

What is it?

Eligible students can take a course and earn high school and college credit that appears on both their high school and college transcripts. Teachers who teach a College Credit Plus course in a high school must receive professional development and be an adjunct professor at a college or university. All courses offered through College Credit Plus—even courses offered in the high school—must be the same course that the college offers. The course must apply to a degree or professional certificate. College Credit Plus replaces the Post Secondary Education Option, also known as PSEO, and redefines “alternative dual enrollment” programs as advanced standing programs.

Why?

Ohio needs more students who graduate college- and career-ready. College Credit Plus increases access for students who have not taken full advantage of the opportunity to earn college credits while in high school.

Where?

The student is enrolled in both high school and college and can attend the class in any setting arranged by the college.

Who?

Ohio public school districts and Ohio public colleges and universities must participate in College Credit Plus. Nonpublic high schools and colleges or universities may choose to participate. To be eligible, students must meet the admission standards of the participating college or university to which they apply for enrollment.

When?

The PSEO programs will continue to operate for the 2014-2015 school year. College Credit Plus starts in the 2015-2016 school year.

How does a student get started?

All participating public and private high schools, colleges and universities must promote College Credit Plus opportunities on their websites. Additionally, they will hold an annual informational event for students and parents.

Cost:

There is no cost for the student to participate in College Credit Plus when the student is enrolled in a public college or university. The high school and college or university share the cost for the course. Students choosing to enroll in a participating private college or university might incur costs.

For more information visit: [here](#).



CREDIT FLEXIBILITY PLAN

Philosophy:

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

Students may earn credit by:

- Option A: Completing coursework;
- Option B: Testing out of or demonstrating mastery of course content;
- Option C: Pursuing one or more “educational options” (e.g., distance learning, post-secondary coursework, educational travel, independent study, an internship, music, arts, after-school/tutorial program, community service or other engagement projects and sports).
- Option D: A combination of Options A, B, and C

Credit flexibility is intended to motivate and increase student learning by allowing:

- Access to more learning resources, especially real-world experiences
- Customization around individual student needs
- Use of multiple measures of learning, especially those where students demonstrate what they know and can do, apply the learning, or document performance

Eligibility:

Students in grades 8-12 who meet established course pre-requisites and complete Flex Credit participation paperwork and course proposal and submit by required deadline.

Credit:

All credit will have equitable value. Student records and other documentation will not differentiate credit based on how it is earned. All college level courses that align with LHS courses will be accepted for high school credit, with the amount and type of credit awarded to be determined by the Credit Flexibility Panel. Equivalency for a Carnegie unit will be based on mastery of one year's worth of course content as described in Ohio's Academic Content Standards. Students must meet established course pre-requisites for course level advancements.

Student Proposal:

Students who wish to pursue flex credit, must submit a course proposal in writing to Guidance Counselor/Building Principal by the specified deadline. Additional cost associated with student proposed activities, materials, and assessments for credit flexibility will be the sole responsibility of the student and his/her parent or guardian. Upon approval by the Credit Flexibility Panel (Principal, Guidance Counselor, and HS Department Chair or department designee), a teacher of record will be assigned. The school reserves the right to alter the proposed timeline and/or assessments required for flexible credit prior to signing the proposal and creating the agreement.

At the completion of the activities and/or assessments for the proposed flexible credit, the student will meet with the Credit Review Panel and the teacher of record. The student will present the proposed evidence and will respond to any questions or requests for demonstration of skill and/or knowledge asked by the panel. After reviewing the student's evidence of learning, the panel may grant credit and issue a grade or deny credit.

Appeal Process:

All appeals regarding denial of participation in the credit flexibility option or in credit or grade issued will be placed in writing and submitted to building principal within 10 school days of the Credit Review Panel's ruling.

The Review Board will consist of the Director of Instruction, HS Department Chair of Content Area, a classroom teacher of the content area studied and chosen by the student, HS guidance counselor, and HS Building Principal. If the department chair is the teacher of record, the building principal will assign another content area classroom teacher. The Review Board will examine any student appeals concerning denial of participation in the credit flexibility option and/or denial of credit. The Review Board will consult with the teacher of record regarding work submitted and rationale for grade earned. The decision of the Review Board will be by majority vote and will be the final determination in the appeal process.

CREDIT FLEX COTINUED

Submission Dates:

Student proposal applications are due by **May 1st** with notification of review by the Credit Review Panel by **May 30th**.

Grading:

School grading scale and LHS grading policies will be followed. Final grade will be calculated into student's GPA.

Drop Policy:

The school drop policy as adopted in the LHS course registration handbook under schedule changes will be followed.

Athletic Eligibility:

To be eligible, a student must be currently enrolled and must have been enrolled in school in five full credit courses during the immediately preceding grading period (semester, quarter, six-weeks, etc.). A student enrolled in credit flex courses must, at the conclusion of the high school's grading period, be "passing" their credit flex course in order for this course to counted toward the five one credit (or equivalent) courses used to establish athletic eligibility. The student may not yet have completed the courses, but it must be determined that the student was "passing" the course(s) at the time the grading period ended. If it is determined that the student is not passing, no credit toward the five credits (or equivalent) required for eligibility can be awarded.

PHYSICAL EDUCATION

High school students may meet the physical education requirement by taking 2 regular PE classes, or completing 2 seasons of interscholastic athletics or marching band. Students may only earn one PE credit per season. (i.e. marching band and cross-country during the same fall season cannot count as both of the required units). In order to waive PE requirements by participating in athletics or band, a PE waiver form must be turned into the guidance office.

SUMMER SCHOOL (IF OFFERED)

Students may earn credit toward graduation by attending classes during the summer. This credit will be classified as either "New" credit or "Makeup" credit.

- a. "New" credit must be earned under the guidelines established in Section 3313.603 of the Ohio Revised Code.
- b. "Makeup" credit must be earned under the guidelines established in the Educational Options policy adopted by the Logan-Hocking Local School District.
- c. Summer School credits will be accepted toward graduation providing administrative approval has been given prior to registering for the course.

NIGHT SCHOOL (IF OFFERED)

Students may earn credit toward graduation by attending classes in the evening during the regular school year. This credit will be classified as either "New" credit or "Makeup" credit.

- a. "New" credit must be earned under the guidelines established in Section 3313.603 of the Ohio Revised Code.
- b. "Makeup" credit must be earned under the guidelines established in the Educational Options policy adopted by the Logan-Hocking Local School District.

The district will accept credits earned toward graduation from other school districts if they are chartered by the State Department of Education. Grades and their point value associated with these classes will fall within the guidelines used by Logan High School to determine Grade Point Average and subsequent Class Rank.



TRI-COUNTY CAREER CENTER

Students have the option of attending Tri-County Career Center throughout the junior and senior years. Students remain Logan High School students, but are simply attending the Career Center! The diploma comes from Logan High School! All students have the opportunity to visit the Career Center in December of the sophomore year, and the application process begins at that time.

At Tri-County, students receive intensive training in a selected program for half of the day. They also take academics for the remaining half of the day. All junior and senior academic courses required for graduation from Logan High School are offered at Tri-County, and various levels are offered to meet the needs of the students. Upon graduation, students are prepared to continue their education if desired, enter the skilled work force, or enter the military.

To be accepted to Tri-County Career Center, students must have a total of 9 credits at the end of the sophomore year. These credits should include 2 English, 2 Math, 2 Science, 2 Social Studies, 1/2 Physical Education, and 1/2 Health. Students lacking academic credit will have to make up work to complete which might involve summer school, after school, on-line course work, and/or correspondence course work.

PROGRAMS OF STUDY

Programs of Study—visit the web page!
www.tricountyhightech.com

Auto Body Technology
Auto Technology
Building and Property Trades
Computer Tech Academy
Construction Trades
Cosmetology
Criminal Justice/Law Enforcement
Culinary Arts
Diesel/Ag Technology
Early Childhood Education
Electrical Trades
Fashion and Marketing
Hospitality Services
Medical Professions
Nursing Technology
Office Professional
Power Line Technology
Sports Medicine
Teacher Academy (senior year only)

Comparison of Diplomas with Honors Criteria
Students need to fulfill all but one of the applicable criteria for the Diploma with Honors.

Subject	Academic Diploma with Honors for Classes 2011 and Beyond	Career-Technical Diploma with Honors for Classes 2012 and Beyond
English	4 units	4 units
Mathematics	4 units, including Algebra I, Geometry, Algebra II or the equivalent and another higher level course or a four-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or the equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
Science	4 units, including physics and chemistry	4 units, including two units of advanced science ****
Social Studies	4 units	4 units
Foreign Language	3 units (must include no less than 2 units for which credit is sought), i.e., 3 units of one language or 2 units each of two languages	N/A
Fine Arts	1 unit	N/A
Electives	N/A	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post secondary credit
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT Score [excluding scores from the writing sections]*	27 ACT / 1210 SAT	27 ACT / 1210 SAT
Additional Assessment	N/A	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

Diploma with Honors requirements pre-suppose the completion of all high school diploma requirements in the Ohio Revised Code including:

½ unit physical education**
 ½ unit health

½ unit in American history
 ½ unit in government

* Writing sections of either standardized test should not be included in the calculation of this score.

** SB 311 allows school districts to adopt a policy exempting students who participate in interscholastic athletics, marching band or cheerleading for two full seasons or two years of JROTC from the physical education requirement.

**** Advanced science refers to courses in the Ohio Core that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with the new high school syllabi, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy), or contain material above the current OGT level.

COURSE DESCRIPTIONS

ENGLISH

1300 – ENGLISH 1 (Grade 9)

1 CREDIT

Ninth grade English concentrates on the strands of reading, writing, research, and oral and visual communication. Students engage in acquisition of vocabulary, classroom and independent reading as well as the process, application and conventions of writing. Literary experiences include informative, technical, persuasive and literary text including the study of *Romeo and Juliet*. The class includes the development of visual and oral communication skills. The steps needed to complete research are explored. Grades will be based on homework, assessments and classroom assignments.

1320 – HONORS ENGLISH 1 (Grade 9)

1 CREDIT

This course is designed for those who enjoy reading and writing and have been proficient in grammar, writing and literature in the past. The course requires outside reading of various literary genres. To be eligible, students must be recommended by their eighth grade English teachers. There will be extensive study of the more complex elements of grammar, including verbal forms and sentence subordination. Honors students will be studying classic novels and plays in addition to those required in English 1. Composition assignments will involve some analysis of literature, based on reading and discussion. Students will be proficient in the use of technology to complete projects. Grades will be based on homework, tests, class participation, writing assignments and special projects. **Prerequisites:** Referral/placement.

1330 – CIVILIZATION & LANGUAGE SURVEY (CLS) (Grade 9)

1 CREDIT

Through a cross-curricular approach to history and literature, exceptional freshman students may choose to challenge their language arts skills in reading, writing, speaking, listening and researching. CLS candidates should be interested in developing the analytical and critical thinking skills necessary for the higher-level consideration of literature. Successful CLS students are self-disciplined and demonstrate the strong organizational and time management skills necessary for the quality completion of extensive reading and writing assignments. **Prerequisites:** Gifted identification (superior cog and/or reading) and completion of summer assignments.

1400 – ENGLISH 2 (Grade 10)

1 CREDIT

Tenth grade English concentrates on the strands of reading, writing, research, and oral and visual communication. Students engage in acquisition of vocabulary, classroom and independent reading as well as the process, application and conventions of writing. Literary experiences include informative, technical, persuasive and literary text including the study of full-length works such as Julius Caesar. The class includes the development of visual and oral communication skills. The steps needed to complete research are explored. Grades will be based on homework, assessments, and classroom assignments. **Prerequisite:** English 1 credit.

1420 – HONORS ENGLISH 2 (Grade 10)

1 CREDIT

There will be in-depth study and discussion of classic novels, plays, poetry, and essays. In addition to creative writing, some composition assignments will involve analysis of literature based on reading and discussion groups. Group and individual projects in connection with thematic units studied will also be required during the semester. An intensive study of grammar and mechanics will be ongoing throughout both semesters. This is preparation for the OGT and the ACT. **Prerequisites:** Referral/placement.

1430 – CIVILIZATION & LANGUAGE SURVEY (CLS) (Grade 10)

1 CREDIT

Through a cross-curricular approach to history and literature, exceptional sophomore students may choose to challenge their language arts skills in reading, writing, speaking, listening, and researching. CLS candidates should be interested in developing the analytical and critical thinking skills necessary for the higher-level consideration of literature. Successful CLS students are self-disciplined and demonstrate the strong organizational and time management skills necessary for the quality completion of an extensive reading and writing assignments. **Prerequisites:** Gifted identification (superior cog and/or reading) and completion of summer assignments.

1500 – ENGLISH 3 (Grade 11)

1 CREDIT

This course teaches an analytical approach to the study of American literature. Classic novels, poetry, drama and essays will be studied. Writing is emphasized. It is assumed that basic skills have been attained and that the student is now ready for in-depth writing exercises, which will include the I-Search paper. All major tests must be taken, and all major writing assignments, including the I-Search paper and all its components, must be finished in a timely manner in order to receive credit. **Prerequisite:** English 2.

1520 – HONORS ENGLISH 3 (Grade 11)

1 CREDIT

This course is designed for those who enjoy reading and writing and have excelled in English in the past. To be eligible, students must have been successful in English 2, be recommended by their teacher, and have passed the OGT in reading and writing. There will be in-depth study and discussion of classic novels, plays and essays. All major tests must be taken, and all major writing assignments, including the research paper and all its components, must be finished in a timely manner in order to receive credit. **Prerequisites:** Referral/placement.

1530 – AP ENGLISH 3 (Grade 11)**1 CREDIT**

AP English 3 is a course in rhetoric and composition. It is designed for advanced college-bound juniors who have a strong background and interest in literature and writing. We will use The Language of Literature as a basic text, supplemented by novels and non-fiction selections. The course emphasizes close analysis of language and techniques used to create works of non-fiction and fiction. Students will develop awareness of how authors create meaning through diction, imagery, tone, etc. The class is intended to be a college-level course. Accordingly, students should be very disciplined and willing to participate fully in reading, discussion and writing exercises.

All AP students will be required to take the Advanced Placement Test in English Literature and Composition offered by the College Entrance Examination Board in May for a cost of approximately \$87.00. High scores on this test can be used to waive certain college English courses and/or to obtain college credit. **Prerequisites:** Referral/placement and completion of summer assignments.

1600 – FILM STUDY (Grades 11 & 12)**.5 CREDIT**

This class is a basic introduction to film study, examining films as narratives. We will consider the same elements used to discuss literature: setting, plot, character development, symbolism, etc., rather than the more technical and practical aspects of film-making. Film Study will begin with movies from the 20's and 30's and focus on various genres, such as horror, comedy, animation etc. Grades will be based on film logs, quizzes and participation.

1610 – FILM STUDY II (Grades 11 & 12)**.5 CREDIT**

Film Study II will be a continuation of first semester, picking up with the 1950's to continue our examination of film genres. Film 2 will be a little more adventurous, including foreign films, documentaries, etc. **Prerequisite:** Film Study.

1640 – CONTEMPORARY LITERATURE (Grades 11 & 12)**.5 CREDIT**

Contemporary Literature is a course designed for students who enjoy reading modern novels, short stories, drama, and poetry. We will read fiction and nonfiction that encompass a variety of genres and writing styles. The class stresses the importance of class discussions, written assignments, vocabulary development, and the Accelerated Reading program. Most work is done on an individual basis with students choosing most novels. Outside reading is required. Students are expected to participate in class discussions and literature circles as well.

1670 – SPEECH (Grades 11 & 12)**.5 CREDIT**

In speech class, the student should expect to stand before his/her classmates and speak about various topics for time periods varying from five to fifteen minutes in length. All speeches are researched; most preparation is done outside of class and is the responsibility of the student. Students are required to keep a notebook and duplicate outlines. Grades will be determined by quality of a student's notebook and outlines, the student's attitude as a listener, and apparent improvement based on student's response to previous criticism. This course would be extremely beneficial for students planning to attend a two-year or four-year college.

1700 – JOURNALISM 1 (Grades 9-12)**1 CREDIT**

Letter grades will be determined on the basis of daily work on articles as well as quizzes, tests, class projects, and assigned papers. Journalism I students also write articles and do page layout for "The Chieftain" newspaper. Timeliness is an important part of determining grades for this course and students will be expected to operate within strict deadlines in regards to article writing and publication. **Prerequisite:** Referral/placement and an application.

1710 – CREATIVE WRITING (Grades 11 & 12)**.5 CREDIT**

Students will read and interpret a variety of poems, short fictional works, and personal narratives by a variety of authors. The class is comprised of technique and style discussions, reading assignments and writing exercises. Works will range from classic to contemporary. Through reading and writing activities, students will gain an understanding of poetry elements and techniques. Students will also master an understanding of the elements of fiction and apply this understanding to their own written creations. Students will participate in rough draft workshops during which their writings will be read, discussed, proofread, and critiqued by peers and the teacher. Students will be required to create and present a multi-faceted portfolio. Students will also be required to participate in creating a fictional story for an elementary-aged student who attends school within the district. Students also experiment with writing that will be submitted via emails to the teacher.

1720 – ENGLISH 4 (Grade 12)**1 CREDIT**

This course provides all seniors with the opportunity to develop and refine their reading and writing skills. The British literature text British Literature will be used to present classic British literature in its historical context and in relation to today's concerns. The Write Source text will serve as a basis for composition skills. Several novels, plays, and non-fictional selections will also be used to help students gain exposure to different literary styles and periods. The course blends traditional and modern literature to help students grasp the connection of universal themes to their own experience. **Prerequisite:** English 3.

1730 – HONORS ENGLISH 4 (Grade 12)**1 CREDIT**

This course is designed for college bound seniors who enjoy reading and writing and who have been proficient in English in the past. It provides students the opportunity to develop the reading and writing skills necessary to succeed in any reading oriented college course. The British literature text The Language of Literature will be used to present classic English literature in its historical context and in relation to today's concerns. The McDougal, Little English text will reinforce composition skills. Several novels, plays, and non-fictional selections will also be used. Throughout the course, students will be challenged to interpret literature and understand universal themes as they relate to personal experiences. **Prerequisites:** Referral/placement.

1750 – ADVANCED PLACEMENT ENGLISH 4 (*Grade 12*)**1 CREDIT**

AP English is a challenging course designed for the highly motivated college bound senior who has a strong interest in literature and composition, as well as an extensive reading background. It allows dedicated students the opportunity to challenge themselves through a highly disciplined program of reading, discussion and writing. Classic and modern fiction (largely British) will be presented in a college-like manner with college level expectations. AP students must be willing to commit the time and energy required to keep up with a fast-paced, demanding curriculum. They must also recognize their responsibility to be fully prepared for class discussion, to actively participate in the exploration of works of literature, and to consistently meet deadlines for reading and writing. In return for these efforts, students will be rewarded with the skills necessary to interpret and enjoy literature over the course of a lifetime. All AP students will be required to take the Advanced Placement Test in English Literature and Composition offered by the College Entrance Examination Board in May for a cost of approximately \$76.00. High scores on this test can be used to waive certain college English courses and/or obtain college credit. **Prerequisites:** Referral/placement and completion of summer assignments.

1760 – JOURNALISM 2 (*Grades 10-12*)**1 CREDIT**

Journalism 2 is the production of the school publication, “The Chieftain: The Students’ Voice.” Each student has assigned job(s) and is responsible for working in a group as a whole. The class includes gathering and organizing information, writing various types of stories and creating layouts. Letter grades are determined by fulfilling duties to the staff, meeting deadlines, and showing self-initiative. Adhering to writing and publication deadlines is expected and enforced. **Prerequisites:** Referral/placement and an application.

FOREIGN LANGUAGE

1800 – SPANISH 1 (Grades 9, 10, 11, 12)

1 CREDIT

Spanish 1 consists of the study of the basic grammar rules and vocabulary necessary to form a basis for the listening comprehension, reading, writing and speaking of Spanish. The course includes work on comprehension, pronunciation skills, memorization of basic vocabulary words, and the ability to use these words in the construction of sentences and short paragraphs. In order to construct sentences and paragraphs, students must also learn certain grammar rules, verbs and conjugations of regular and irregular verbs. This course also includes a study of Spanish-speaking countries, culture and customs. Letter grades are determined by tests, quizzes, homework, listening activities, class participation, class notebooks and projects. **Prerequisite:** Incoming freshmen must have a “C+” or better in their 8th grade English course.

1810 – SPANISH 2 (Grades 9, 10, 11, 12)

1 CREDIT

Spanish 2 requires students to apply concepts mastered in Spanish 1 as they study more complex sentence structures and verb tenses, along with the continuing study of culture and vocabulary building. Emphasis is on the correct grammatical constructions of sentences so that students can attain a better fluency in speaking, begin to construct short essays, and improve their reading and listening comprehension. Letter grades are determined by tests, quizzes, homework, listening activities, class participation, class notebooks and projects. **Recommendation:** Received a grade of “C” or better in Spanish 1.

1820 – SPANISH 3 (Grades 9, 10, 11, 12)

1 CREDIT

Spanish 3 requires students to apply concepts mastered in levels 1 and 2 as they continue to study grammatical structure, vocabulary and culture. Students will continue building listening, reading, writing and speaking skills. Emphasis is on more complex grammatical structures and self-expression. Letter grades are determined by tests, quizzes, homework, listening activities, class participation, class notebook and projects. **Recommendation:** Received a grade of “C” or better in Spanish 2.

1830 – SPANISH 4 (Grades 9, 10, 11, 12)

1 CREDIT

Spanish 4 further develops understanding of verb tenses and refines complex grammatical structures. Students must demonstrate their ability to use Spanish in oral and written expression based on reading selections, video selections and personal experiences. Letter grades are determined by tests, quizzes, homework, listening activities, class participation, class notebook and projects. **Recommendation:** Received a grade of “C” or better in Spanish 3.

1900 – FRENCH 1 (Grades 9, 10, 11, 12)

1 CREDIT

French 1 is designed primarily for college-bound students or those interested in learning about France through learning its language. This course covers five areas: native culture, speaking, writing, listening and reading comprehension. Basic grammar skills are defined and put into use. Along with these grammar skills, work in French 1 involves sentence structures, dialogues, spelling, vocabulary, listening and speaking activities, and cultural units. Letter grades will be determined by tests, quizzes, homework, pronunciation, listening activities, notebooks, class participation and projects. **Prerequisite:** Incoming freshmen must have a “C+” or better in their 8th grade English course.

1910 – FRENCH 2 (Grades 9, 10, 11, 12)

1 CREDIT

French 2 requires students to apply concepts mastered in French 1 as they study more complex sentence structures and verb tenses, along with the continuing study of culture and vocabulary building. Emphasis is on the correct grammatical constructions of sentences so that students can attain a better fluency in speaking, begin to construct short essays, and improve their reading and listening comprehension. Letter grades are determined by tests, quizzes, homework, listening activities, class participation, class notebooks and projects. **Recommendation:** Received a grade of “C” or better in French 1.

1920 – FRENCH 3 (Grades 9, 10, 11, 12)

1 CREDIT

French 3 requires students to apply concepts mastered in levels 1 and 2 as they continue study grammatical structure, vocabulary and culture. Students will continue building listening, reading, writing and speaking skills. Emphasis is on more complex grammatical structures and self-expression. Letter grades are determined by tests, quizzes, homework, listening activities class participation, class notebook and projects. **Recommendation:** Received a grade of “C” or better in French 2.

1930 – FRENCH 4 (Grades 9, 10, 11, 12)

1 CREDIT

French 4 further develops understanding of verb tenses and refines complex grammatical structures. Students must demonstrate their ability to use French in oral and written expression based on reading selections, video selections and personal experiences. Letter grades are determined by tests, quizzes, homework, listening activities, class participation, class notebook and projects. **Recommendation:** Received a grade of “C” or better in French 3.

MATHEMATICS

2250 – CONSUMER MATH (Grade 12)

1 CREDIT

Consumer Math is designed to give a student practice and experience in solving practical problems he/she will face in adult life, both as a competent consumer and as a valuable employee. The course is meant for those who want a practical math for everyday use in many fields. Topics that will be covered include estimation, organizing data into tables, making predictions, working with probability, and working with geometric terms and figures. **Prerequisites:** Algebra I and Geometry. (Not recommended for those who have passed Algebra II).

2300 – ALGEBRA 1 (Grade 9)

1 CREDIT

This course is designed for the student planning on going to college. Topics to be covered include real numbers, equations and inequalities, open sentences in two variables and their graphs, systems of open sentences and their graphs, polynomials and rational expressions, quadratic equations, relations and functions, polynomial and rational functions, statistics and probability.

2400 – GEOMETRY (Grades 9, 10)

1 CREDIT

The study of geometry applies the properties of similar and congruent figures. It introduces students to various techniques of proof. Application of the Pythagorean Theorem, and the study of angles, parallel lines, perpendicular lines and circles are investigated. Compass and straight edge constructions are explored in the context of geometric theorems. Measurements of surface areas and volumes of solids are studied, with an emphasis on problem solving. **Prerequisites:** Algebra I.

2420 – HONORS GEOMETRY (Grades 9, 10)

1 CREDIT

This course is designed for a rigorous approach to the study of geometry. Students are introduced to various techniques of proof, and properties of similar and congruent figures are studied. Application of the Pythagorean Theorem, and the study of angles, parallel lines, perpendicular lines and circles are investigated. Compass and straight edge constructions are explored in the context of geometric theorems. Measurements of surface areas and volumes of solids are studied, with an emphasis on problem solving. Projects may be included. **Prerequisite:** Referral/placement.

2550 – INTERMEDIATE ALGEBRA (Grades 10, 11)

1 CREDIT

Intermediate Algebra is designed as a review of Algebra concepts to broaden and strengthen the skills needed for success in Algebra 2. Topics will include solving equations and inequalities, polynomial expressions, rational expressions, quadratic equations, functions, radicals and more. Students who received a grade below a B- in Algebra 1 are recommended to take this course before taking Algebra 2. **Prerequisite:** Algebra 1 and Geometry (taken or concurrent.)

2600 – ALGEBRA 2 (Grades 10, 11, 12)

1 CREDIT

The course is designed to prepare the student with a good foundation for further study of mathematics and/or science. It is a prerequisite for pre-calculus and calculus. The course covers such topics as: linear functions, systems of linear equations and inequalities, polynomial and rational algebraic expressions, exponential and logarithmic functions, uses of real and complex systems, sequences and series, vectors, matrices, probability, and trigonometric functions emphasizing problem solving. **Prerequisites:** Algebra 1 with a Recommended "B-" or higher and Geometry (taken or concurrent).

2620 – HONORS ALGEBRA 2 (Grades 9, 10)

1 CREDIT

This course is designed for students who are willing to be challenged by mathematics and have been proficient in Algebra I and Geometry. It will prepare the student with a good foundation for further study of advanced mathematics and/or science. It is a prerequisite for advanced math and calculus. The course covers such topics as linear functions, systems of linear equation and inequalities, polynomial and rational algebraic expressions, exponential and logarithmic functions, uses of real and complex systems, sequences and series, vectors, matrices, probability, and trigonometric functions emphasizing problem solving. Projects may be included in class depending on time and level of students. **Prerequisite:** Referral/placement

2675 – STATISTICS (Grades 11, 12)

1 CREDIT

This course is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling, anticipating patterns and statistical inference. Some of the topics include probability, distributions, normal distribution, confidence intervals, hypothesis testing, correlation, chi-squared test and more. **Prerequisite:** Recommended "C" or higher in Algebra 2.

2700 – ALGEBRA 3 (Grade 11, 12)

1 CREDIT

Every college bound student will have to take at least one Algebra course in college, probably during their freshmen year. Algebra 3 is a class that will enable those students taking the college course to be successful in that course. In addition, those who successfully complete Algebra 3 may be able to test out of the college Algebra course. This will apply, in particular, to non-science majors. Algebra 3 provides for a highly numerical approach to algebra and geometry applications. Graphing and calculators play a key role in the course. They provide concrete representations of relationships and access to demanding, realistic problems. Topics to be covered include patterns, problem solving strategies, number relationships, algebra, measurement, data analysis, and probability. **Prerequisite:** Recommended "C" or higher in Algebra 2.

2820 – PRE-CALCULUS (*Grades 11, 12*)

1 CREDIT

Pre-Calculus is designed for the college-bound senior who has completed Algebra I, Geometry, and Algebra II. The course will expand the student's proficiency in analysis, trigonometry concepts, algebraic concepts, problem solving, real and complex number systems and elementary calculus. **Prerequisite:** Algebra II.

2900 – AP CALCULUS (*Grade 12*)

1 CREDIT

The AP Calculus course will consist of a full year of work in calculus and related topics comparable to courses in colleges and universities. Topics to be covered will include functions and graphs, limits and continuity, differential and integral calculus. All students will be required to take the Advanced Placement Test in Calculus offered by the College Entrance Examination Board in May at a cost of approximately \$89.00. **Prerequisites:** Pre-Calculus and completion of summer assignments.

SCIENCE

3200 – BIOLOGY (Grade 10)

1 CREDIT

Biology includes the study of life from its smallest units to the interactions of living things at the level of the ecosystem and biomes. Topics covered include the Chemistry of Life, Cells and Cellular Processes, Genetics, Evolution, Ecology, and Classification of Living Things.

Prerequisite: Physical Science.

3230 –HONORS PHYSICAL SCIENCE (Grade 9)

1 CREDIT

Honors Physical Science is an introduction to physics and chemistry. There will be focus on both conceptual and mathematical understanding of the world. All areas of this course will be more rigorous than general physical science, including testing. This course is designed to prepare students for more advanced studies in science including AP Chemistry and AP Physics. Areas covered will include problem solving, motion, forces, energy, thermodynamics, electricity, chemical properties, bonding and chemical reactions. **Prerequisites:** Referral/placement.

3250 – PHYSICAL SCIENCE (Grade 9)

1 CREDIT

Physical Science is an introduction to physics and chemistry. Topics of study include measurement, metric system, speed, velocity, acceleration, forces, energy, thermodynamics, chemical equations, and earth and space sciences. The lab component of the course will supplement these topics throughout the year and will focus on lab skills such as measurement and data analysis. Emphasis will be placed on science reasoning, application and problem solving.

3540 –HONORS BIOLOGY (Grade 10)

1 CREDIT

Honors Biology includes the in depth study of life from its smallest units to the interactions of living things at the level of the ecosystem and biomes. Topics covered include the Chemistry of Life, Cells and Cellular Processes, Genetics, Evolution, Ecology, and Classification of Living Things. Honors Biology students will be required to complete reading assignments from a college textbook and students will take more rigorous tests and quizzes.

Prerequisites: Referral/placement and Physical Science.

3550 – ADVANCED PLACEMENT BIOLOGY (Grades 11 & 12)

1 CREDIT

The AP Biology course is designed to be the equivalent of a college freshman biology course usually taken by biology majors. AP Biology includes those topics regularly covered in a college course for biology majors. It differs significantly from the usual first high school course in biology with respect to the type of textbook used, the range and depth of the topics covered, the kind of laboratory work done by students, and the time and effort required of students. College textbooks are used and the labs performed are equivalent to those done by college students. Topics covered include : Organic Chemistry, Cell Biology, Energy Conversions, Evolution, Anatomy and Physiology, and Ecological Interactions. All students are required to take the AP exam in May and are responsible for the test fee. **Prerequisites:** Physical Science, Biology, and Chemistry (Chemistry may be taken concurrently)

3600 – GEO-ENVIRONMENTAL SCIENCE (Grades 11 & 12)

1 CREDIT

This course enables students to examine basic geologic processes (plate tectonics, weathering, erosion, glaciation, etc.) that formed the variety of landforms found on Earth today (lakes, streams, mountains, canyons, etc.). Students will examine the composition of the Earth (rocks, minerals, and soils) and how the composition of Earth's interior affects our daily lives. Knowledge of these foundations and fundamental processes will be utilized to evaluate different means of conservation and resource management. An understanding of these practices will be used to assess the impacts of environmental degradation and catastrophic events. The knowledge learned throughout the course can be applied to numerous relevant topics that are discussed daily in the global media. As each topic is discussed, emphasis will be placed on the impacts of human interactions with the environment. **Prerequisites:** Physical Science and Biology.

3620 – FORENSIC SCIENCE (Grades 11 & 12)

1 CREDIT

Forensic Science is a course designed for those students wanting to go into a biology related technical career. This is a hands on laboratory class. Topics covered will include general biotechnology, genetics, human remains identification, trace evidence, toxicology, microscopy (including slide preparation and staining), gel electrophoresis, culturing bacteria, and simulated blood typing and fingerprint identification. Students will conduct weekly experiments and interpret data collected. They will maintain laboratory notebooks that meet the standards of a working scientific laboratory. Students will read current research articles on the subject matter being studied each grading period. Tests, both written and lab practicals, classwork, and a library research project will make up the students' grades. **Prerequisites:** Physical Science and Biology.

3700 – CHEMISTRY 1 (Grades 10-12)

1 CREDIT

Chemistry 1 is designed to expose the students to the basic principles of chemistry. It focuses on the scientific facts and principles of Chemistry in both theory and laboratory practice for the high school student who plans to take science courses in college. A scientific calculator is required for the course. **Prerequisite:** Physical Science, Algebra II (or concurrent).

3720 – AP CHEMISTRY (Grades 11, 12)**1 CREDIT**

AP Chemistry is a permission only class. This course is a continuation of Chemistry I geared to the student considering a career in a science-based field. Topics to be covered include intermolecular forces, liquids, molecular and ionic solids, solution chemistry, chemical kinetics and equilibrium, acids and bases, entropy and spontaneity, electrochemistry, and descriptive chemistry. Requirements for the course include a summer reading assignment in Chemistry. All students will be required to take the AP test in Chemistry offered by the College Board in May for a cost of approximately \$72.00. High scores on this test can be used to obtain college credit in certain college chemistry courses. **Prerequisites** – Referral/placement, Chemistry I, and completion of summer assignments.

3800 – PHYSICS (Grades 11, 12)**1 CREDIT**

Physics is the study of motion, force and energy as related to the world around us. Specific attention will be given to problem solving, critical thinking and the application of physics principles, theories and laws. This course is design to introduce students to the topics covered in college physics. Students will also gain experience with lab procedures and equipment. Students must meet the prerequisites for the class. It is recommended that science majors take AP Physics. **Prerequisites:** Algebra II, Chemistry I (or concurrent).

3820 – ADVANCED PLACEMENT PHYSICS (Grades 11, 12)**1 CREDIT**

AP Physics is a rigorous course designed for students considering majors and careers in science. The content of the course will focus on Newtonian mechanics, rotational dynamics, energy and electricity. There will be emphasis placed on problem solving, both conceptually and quantitatively. Qualifying scores on the AP Physics Exam can be used to obtain college credit. All students enrolled must take the AP Exam. **Prerequisites:** Advanced Math (or concurrent), Chemistry (or concurrent), and completion of summer assignments.

3900 – BIOMEDICAL SCIENCES 1 – PRINCIPLES OF THE BIOMEDICAL SCIENCES (Grade 11)**1 CREDIT**

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. **Prerequisites:** Algebra 2 (or concurrent), Chemistry 1 (or concurrent.)

3910 – BIOMEDICAL SCIENCES 2 – HUMAN BODY SYSTEMS (Grade 11)**1 CREDIT**

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. **Prerequisites:** Biomedical Sciences 1 – Principles of the Biomedical Sciences.

3920 – BIOMEDICAL SCIENCES 3 – MEDICAL INTERVENTIONS (Grade 12)**1 CREDIT**

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. **Prerequisites:** Biomedical Sciences 1 – Principles of the Biomedical Sciences, and Biomedical Sciences 2 – Human Body Systems.

3930 – BIOMEDICAL SCIENCES 4 – BIOMEDICAL INNOVATION (Grade 12)**1 CREDIT**

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution. **Prerequisites:** Biomedical Sciences 1 – Principles of the Biomedical Sciences, and Biomedical Sciences 2 – Human Body Systems, Biomedical Sciences 3 – Medical Interventions.

3940 – AP ENVIRONMENTAL SCIENCE (Grades 11 & 12)**1 CREDIT**

The course will investigate the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate risk factors of these problems, and to examine alternative solutions for resolving or preventing them. Emphasis in this class is placed on science as a process, energy conversions underlying all ecological processes, the Earth as an interconnected system, how humans alter the environment, environmental problems and their social context and developing sustainable practices. All students are required to take the AP exam in May and are responsible for the test fee. **Prerequisites:** Physical Science, Biology, and Chemistry

SOCIAL STUDIES

4000 – WORLD HISTORY (Grade 9)

1 CREDIT

This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

4020 – HONORS WORLD HISTORY 9 (Grade 9)

1 CREDIT

This course is designed for freshmen that have shown they are capable of a more demanding study of history. Special attention will be given to writing assignments especially essays. This class will cover half of the concepts that will be tested in March of the sophomore year when students take the Ohio Graduation Test. This class is important preparation for that test. In the first part of the course, students will study world events such as the Enlightenment, industrialization, and imperialism. Students will also learn the differences among the systems of government and economic systems. The rest of the course will be spent reviewing U.S. History from 1877 to 1930 and will include the cultural, economic, political, and social trends of the nation. **Prerequisites:** Referral/placement.

4110 – AMERICAN HISTORY (Grade 10)

1 CREDIT

This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

4120 – HONORS AMERICAN HISTORY 10 (Grade 10)

1 CREDIT

This year long course is designed for sophomores that have shown they are capable of a more demanding study of history. Special attention will include more writing assignments, especially essays. This class will cover half of the concepts that will be tested in March of the sophomore year when students take the Ohio Graduation Test. This class is important preparation for that test. The course will examine U.S. History from 1930 to present day and will include the cultural, economic, political, and social trends of the nation. Special attention will be given to how the U.S. affected major world events such as the Great Depression, WWII, the Cold War including the Korean and Vietnam Wars, and the fall of communism in Europe. **Prerequisites:** Referral/placement.

4200 – ANCIENT WORLD HISTORY (Grades 11, 12)

5 CREDIT

This semester course will emphasize the development of civilization in the Middle East nations and its spread throughout North Africa and Europe. Specific topics will include the rise and fall of the Roman Empire as well as barbaric tribal invasions and the development of the feudal system in Europe. Classroom activities will include lectures as well as discussion of important events, and the viewing of several historical movies that characterize the lifestyle of the ancient civilizations.

4250 – MODERN WORLD HISTORY (Grades 11, 12)

5 CREDIT

This semester course will emphasize the development of the modern world. Special attention will be given to the development of certain countries and their affect on world affairs. Specific topics will include the industrial revolution, World Wars I and II, and the postwar conflict that developed among the U.S., the Soviet Union and their allies.

4300 – WORLD GEOGRAPHY (Grades 11, 12)

5 CREDIT

World Geography is the study of major regions of the world and how the physical environment in which human's lives affects the culture and lifestyles of its inhabitants. This class involves in-depth map studies focusing on all major areas of the world including the Middle East, Europe, Africa, Asia, and Latin America. Special units will include the study of weather, climate patterns, climate change, world populations, and major world religions. We will watch multiple videos/films that focus on current global problems brought about by geographic issues. This class should appeal to students who possess a curiosity about the broader world in which they live. Geography cannot be taught without the perspective of history, it may be a "modern" course, but it also has "non-modern" elements.

4400 – GOVERNMENT (Grade 11)

1 CREDIT

This full-year and required course is about government in the United States. The subject matter revolves around The United States Constitution and other important documents. A thorough understanding of American political history and the electoral process will enhance student achievement. The course also compares/contrasts our form of government with other contemporary and past world governments. In addition, governmental structures and functions are studied, ranging from both national to local levels. Other major topics include studies of foreign, domestic, diplomatic and military policy. In addition, students will develop a complete understanding of economics and how to manage a household budget. In the end, students will understand how our government works, but realize they have the duty to be informed citizens and contributors to our republic.

4410 – AP AMERICAN GOVERNMENT AND POLITICS (Grades 11, 12)**1 CREDIT**

Advanced Placement (AP) American Government and Politics is a course designed to further student knowledge pertaining to the workings of the U. S. government and political system. AP Government and Politics will satisfy the standard government requirement for graduation. This course will provide students an analytical perspective on government and politics in the United States. The goals of this course will be to know important facts, concepts, and theories pertaining to U.S. Government and politics, to understand typical patterns of political processes and behavior and their consequences, to be able to analyze and interpret basic data relevant to U.S. Government and Politics. To help students meet these goals, the course will cover the following topics: constitutional underpinnings of United States government; political beliefs and behaviors; elections, political parties, interests groups and mass media; institutions of national government (Congress, presidency and courts); public policy; and civil rights and civil liberties.

Grades will be determined by tests, quizzes, class participation, and reaction papers designed to assess understanding of regularly assigned readings. One book will be assigned for summer reading. Students taking this class must take the AP Government exam, which is given in May. Special emphasis will be placed throughout the year on passage of this exam. Passing scores on the AP Government exam can be used to waive certain college Political Science courses at the college level. **Prerequisite:** Referral/placement and completion of summer assignments. (If numbers are limited, seniors will receive first preference).

4450 – ECONOMICS (Grades 11, 12)**.5 CREDIT**

This course is designed to give students basic knowledge of economic activities that relate to them personally, and how their participation in these activities interrelate to the local, state, national and international economy. Students will be introduced to basic economic principles so they may better understand past and current economic trends and the effect these trends will have at all different levels of the community.

4500 – SOCIOLOGY (Grades 11, 12)**.5 CREDIT**

Sociology is a study of human interactions of groups. Areas covered will be self-image in a changing society, social needs, the changing role of families, social status, adjusting to society, crime and minorities. Class participation is important. Tests, quizzes, reports, and group work will determine the grade.

4550 – STREET LAW (Grades 11, 12)**.5 CREDIT**

Street Law is a law-related class designed to engage high school students in a critical examination of their legal responsibilities and rights. Students who wish to pursue careers in law, law enforcement, business, government/public service, etc., will have the opportunity to begin their in depth examination of the inner workings of the law. By taking law to high school students, students will learn about practical legal problems, contemporary legal issues and the ramifications of breaking the law. The ultimate goal of the course is to provide high school students with a sense of belonging in society through empowerment with knowledge of the law. By providing students with a non-adversarial view of the law, Street Law will work to impart an understanding of the fundamental principles of authority, fairness, justice and responsibility that underlie our legal system. By demystifying the law, Street Law will allow young people to develop a positive attitude towards the law and reduce juvenile delinquency.

4600 – PSYCHOLOGY (Grades 11, 12)**.5 CREDIT**

This course will provide a basic vocabulary of psychological terms as used professionally and an introduction to the scientific methods used in the study of psychology. In addition, it provides students an opportunity to understand the factors that shape their own personalities as well as those of others. It will also analyze the behavior of the criminally insane through the viewing of videos of serial killers and mass murders. Test scores, homework and notebook will determine letter grade.

4800 – CIVIL WAR (Grades 11, 12)**.5 CREDIT**

This course is an elective for the student who is especially interested in American History. The class content in the first nine weeks focuses on the causes of the war, including evolution of slavery in the U.S. as it expanded its territory to the Pacific coast and the states' rights conflict between the North and South. The second nine weeks will be devoted to the fighting of the war including overall strategy and major battles. Several movies will be used to reinforce the class content, including the *North and South*, *Gettysburg*, and the some parts of the Ken Burns documentary *The Civil War*.

BUSINESS EDUCATION

5200 – ACCOUNTING 1 (Grades 10, 11, 12)

1 CREDIT

This full year course is designed to introduce students to basic accounting and bookkeeping practice used in business. Basic excel will be introduced to create financial statements. Students planning to major in a business related field, accounting, engineering, or computers in college are recommended to take this course.

5250 – COMPUTERIZED ACCOUNTING 2 (Grades 11, 12)

1 CREDIT

This course is primarily online and independent. This is a continuation of Accounting I. Students will work on a more independent basis. During the second semester students will be using MOS Excel, MOS PowerPoint, and Quick Books. Those enrolled in Accounting II must pass Accounting I with a “C” or better. **Prerequisite:** Accounting 1.

5260 – COMPUTERIZED ACCOUNTING 3 (Grade 12)

1 CREDIT

This course is primarily online and independent. In this third year of accounting four main units of study will be focused on. Review of the accounting field, payroll accounting, accounts receivable, and accounts payable. Students coming out of this course should be able to take an entry level position with a company’s accounting department or be prepared to go on to college to study accounting or a related field. **Prerequisite:** Accounting 2.

5400 – KEYBOARDING I (Grades 9, 10, 11, 12)

.5 CREDIT

This course provides you with necessary techniques to keyboard accurately at minimum of 25 wpm using the alpha and numeric keyboard. Keyboarding accuracy is a valuable skill for all. This course or the equivalent skill is essential for those interested in an office career and a prerequisite for subsequent computer courses where keyboarding is required. Upon successful completion of this course you will be able to keyboard accurately and proficiently by touch, proofread quickly and accurately, apply basic ergonomic principles, build keyboard speed and accuracy, manage time effectively and work independently and follow written directions.

5420 – TECHNOLOGY APPLICATIONS 1 (Grades 9, 10, 11, 12)

.5 CREDIT

In this comprehensive course, students will become accustomed to the capabilities of various software programs used in college and business today, while continuing to strengthen keyboarding fundamentals. Students will become proficient in word processing and basic computer graphics used to create and format documents, forms and publications; spreadsheets that incorporate formulas and graphs; and quality presentations that integrate text, graphics and special effects. Upon completion, students will be able to identify, select, and apply appropriate technology tools and resources to produce creative works and to construct technology-enhanced documents. Additionally, students will explore technology issues related to risk management/security and effective communication strategies. All students will be able to format and type APA Style papers using Word as well as Excel spreadsheets. In addition students will become fluent in all aspects of computer usage such as online programs that provide flexibility with presentations, word processing, and email. Finally, students will acquire a solid foundation in internet safety. Recommended for all students. **Prerequisite:** Middle School Computer Literacy or Keyboarding.

5430 – TECHNOLOGY APPLICATIONS 2 (Grades 9, 10, 11, 12)

.5 CREDIT

This is a one-semester course taken after Technology Applications I providing additional support in current and upcoming trends in the business and college environment. In addition students will create web pages and sites using at least two different types of web page design programs. Continue advanced features in word processing, spreadsheets, presentations, as well as reinforce internet/email safety and introduction to web page design. **Prerequisite:** Technology Application 1.

5460 - DIGITAL IMAGING (Grades 9, 10, 11, 12)

.5 CREDIT

Students will be editing photos using digital imaging programs that allow users to digitally enhance/alter photos imported into programs such as Photoshop. In this semester course, students will work with Adobe Photoshop – but not limited to – to learn how to digitally alter images, create new designs, work with layers, and much more.

5750 – GRAPHIC PUBLICATIONS (Grades 9, 10, 11, 12)

1 CREDIT

This course creates the yearbook using In Design, Photoshop, Digital Photography, Film Photography and Sales Projects. **Prerequisite:** Microsoft Office Suite or Introduction to Document Processing with a “C” or better or test out.

6690 – INTERNSHIP (Grade 12)

.25 CREDIT

A student enrolled in this course may earn up to 2 hours of elective credits and gain valuable work-related experience. The student must be employed in a supervised workplace and have parental permission to participate.

TECHNOLOGY EDUCATION

Technology Education is an integral part of the general education of all students. Courses are organized to accommodate students of all ability levels. Students, both male and female, gain skills in courses that are technical and hands-on. Exposure to this all-encompassing arena is a must in today's fast paced, technologically organized society. Students gain an understanding of technology's effect on society and the individual; become problem solvers, creative thinkers and wise consumers; understand possible career choices; become technologically functional and effective manipulators of tools and materials; and learn skills and concepts in the various technologies.

6050 – TECHNOLOGY EDUCATION 1 (Grades 9, 10, 11, 12)

1 CREDIT

This class consisting of four (4) segments each nine (9) weeks in duration. The goals for the entire yearlong class are diverse: to introduce students to four areas of technology education that can benefit their problem-solving skills, their vocational skills and to spark interest in potential careers paths or even enriching pastimes. Additionally, our department is committed to enabling our students to become more educated consumers for their post-academic careers once they leave LHS. Learning how products are made and how systems in the world around them work together drives that goal.

The four (4) segments that make up this class are:

Computer Aided Drafting (CAD):

In this nine (9) week class, emphasis is placed on understanding the software command structure and drafting standards. This includes: measuring, hand sketching, lettering, three-view drawings, orthographic, and isometric drawings. Students are exposed to additional drafting activities such as dimensioning, and CADD (computer-aided-drafting-design) programs like AutoCAD and Sketch Up. The overriding goal of this segment is to prepare students to be able to read existing project plans.

Woodworking:

This nine (9) week segment introduces students to skills and tools involved in basic woodworking. The class starts off with a comprehensive introduction, instruction and assessment of basic "shop safety," first aid and tool usage. Once students have demonstrated the ability to properly and safely use the basic machinery, the class moves on to a manufacturing oriented project, which applies all that they have learned to this point. This project requires students to be able to read and follow existing project plans, create Bill of Materials, understand consumerism and manage their time. Students are also introduced to concepts and career paths within the woodworking & manufacturing industry.

Metalworking:

This nine (9) week segment introduces students to skills and tools involved in basic metalworking. The class starts off with a comprehensive introduction, instruction and assessment of basic "shop safety" and first aid. Students will become proficient in vocational mathematics including measurement, fraction to decimal conversion, and basic design geometry. The application of these skills will be on a project that introduces planning, designing, constructing, and marketing. This project will be used to introduce basic metallurgy, sheet metal fabrication, fasteners, and introductory arc welding.

Computer Programming:

This nine (9) week segment begins with an overview of various internal components of the computer and their function. The class will utilize a graphical programming environment to introduce students to computer programs. The course will cover topics such as designing the flow of a project, using variables, creating loops, and creating responses to user input. Students will learn to program animations, games and simulations.

In all four (4) segments, students will be graded on their knowledge and proper use of equipment, class participation, homework, tests, and project evaluations. Each 9 week segment will detail their grade breakdown and weighting in their respective syllabi. **Prerequisite:** None.

6100 – TECHNOLOGY EDUCATION 2 (Grades 10, 11, 12)

1 CREDIT

Technology Education 2 consists of four (4) segments each nine (9) weeks in duration. The goals for the entire yearlong class are diverse: to introduce students to four areas of technology education that can benefit their problem-solving skills, their vocational skills and to spark interest in potential careers paths or even enriching pastimes. Additionally, our department is committed to enabling our students to become more educated consumers for their post-academic careers once they leave LHS. Learning how products are made and how systems in the world around them work together drives that goal.

The four (4) segments that make up this class are:

Computer Aided Drafting (CAD):

This semester segment introduces students to a more in depth understanding and skill level in the area of computer-aided drafting. The class begins with a review of the hand sketching skills learned in Technology Education I. From that point, students are reintroduced to the CADD (computer aided drafting & design) programs AutoCAD, Sketch Up. Students will also be introduced to Inventor, which is 3D modeling software. These programs are used to produce advanced orthographic and isometric drawings. These programs will also be used to create a set of student made working drawings. The overall goal of this segment is to not only be able to read a set of project plans, but to also be able to create a set of project plans.

Computer Programming:

This segment continues on developing skills learned in Technology Education 1. Students will learn to program computer games and simulations in a more advanced programming language. They will learn programming skills related to object oriented programming, and to create more professional looking applications.

Woodworking:

This semester-long segment introduces students to a deeper understanding of how to safely operate all of the equipment in the woodworking production shop. The course starts off with a deep and rigorous safety and first aid review. From there, students work on several intermediate level woodworking projects using detailed project plans. For each project, students are required to create detailed Bill of Materials and investigate the consumer-oriented

value of their final product. While previously learned concepts of manufacturing are reinforced, the new concept of Custom Manufacturing is not only introduced, but also applied. The two main projects in the class are 1) a hand-turned wooden ink pen customized with LHS school colors & 2) a Finger-Joint Box customized with a handle that represents the personality of the individual student. Finally, a series of Mastery-of-Skill activities will be completed to reinforce measurement skills as well as machine set-up. Additionally, students are exposed to careers and potential career paths in carpentry and manufacturing.

Metalworking:

This semester long segment introduces students to intermediate metalworking. Building on the skills and knowledge established in Technology Education 1, students will perform more complex fabrication exercises. Tools and techniques common to the fabrication industry will be examined in depth with a focus on safety and proper use. Each student will be introduced to: engine lathe, Oxy-acetylene welding and cutting, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW).

In all four (4) segments, students will be graded on their knowledge and proper use of equipment, class participation, homework, tests, and project evaluations. Each 9 week segment will detail their grade breakdown and weighting in their respective syllabi. **Prerequisite:** Technology Education I.

6200 – ADVANCED WOODWORKING (FORMERLY WOOD TECH 1) (Grades 11, 12)

1 CREDIT

This course is established to teach students about quality project design, woodworking techniques, and proper machine use and maintenance. Once students refresh their safety and first aid skills, they will learn how to identify different wood species based on their appearance and characteristics. Students will also learn about the strength oriented characteristics as well as how to strengthen project parts using a variety to specific joints. A missionary style end-table project will teach the class about several new joints, design elements, finishing techniques and consumer-oriented value. The class will also take part in a philanthropic project in order to give back to their general community. Students are encouraged to also involve themselves in lab improvement projects in order to take advantage of the fulfillment in giving back to their school community. Students are required to find and research their own final project. They are encouraged to not use an existing set of plans unless they customize them in some way. Students are required to prepare a detailed Bill of Materials as well as a Plan of Procedure. Students interested in learning about the woodworking industry will find this class valuable as they learn about careers paths related to carpentry.

Though every effort will be made to help supply the students with wood, the cost of project materials should be taken into consideration when signing up for this class as wood for most projects is to be supplied by the students. **Prerequisite:** Referral/placement and Technology Education 2.

6250 – FURNITURE CONSTRUCTION (Grade 12)

1 CREDIT

Students will further develop their technical knowledge of woodworking and related fields. Emphasis on pre-vocational experiences and machine maintenance/repair will be stressed. Students considering a career in wood-related industries will find this class extremely valuable. The class is designed to focus on detailed furniture making projects. Once students refresh their safety and first aid skills, the class will begin working on missionary style a rocking chair. The students will then create a rocking chair designed specifically for them. They will be required to create a complete set of working drawings, a Bill of Materials, prove the need or want that their project satisfies and create a portfolio and presentation covering the entirety of their project from conception to completion.

STUDENTS SIGNING UP FOR THIS CLASS MUST BE ABLE TO WORK ON AN INDEPENDENT BASIS AND SELF-REGULATE THEIR OWN WORKLOAD.

Though every effort will be made to help supply the students with wood, the cost of project materials should be taken into consideration when signing up for this class as wood for most projects is to be supplied by the students. **Prerequisites:** Referral/placement, Wood Technology 1 (Advanced Woodworking).

6300 – WELDING FOR CERTIFICATION I (Grade 11, 12)

1 CREDIT

Logan High School is an American Welding Society SENSE School. *Schools Excelling through National Skills Standards Education.* The Welding for Certification series is the curriculum of Lincoln Welding and The American Welding Society. Students in this course will have the opportunity to join the American Welding Society, earn Entry Welder certification from AWS, and have the opportunity to test for AWS D1.1 welding certification for 3/4" thickness structural steel. This class is offered to students who have successfully completed Technology Education II or with instructor permission. The students will become proficient at Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW) processes through academic and applied processes. Prospective students must be motivated and prepared to learn the academic side of welding as well as manual training. **Prerequisites:** Technology Education II.

6400 – ADVANCED WELDING FOR CERTIFICATION II (Grade 12)

1 CREDIT

High School is an American Welding Society SENSE School. *Schools Excelling through National Skills Standards Education.* The Welding for Certification series is the curriculum of Lincoln Welding and The American Welding Society. Students in this course will be exploring ASME (American Society of Mechanical Engineers) Section IX (9) code for Boilers and Pressure Vessels. The class will explore advanced techniques in Shielded Metal Arc Welding (SMAW), Flux Cored Arc Welding (FCAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW), Plasma Arc cutting, and Carbon Arc Cutting processes through academic and applied processes. This class will also include Welding Industry interview skills and portfolio development. Prospective students must be motivated and prepared to learn the academic side of welding as well as manual training. **Prerequisites:** Referral/placement and Welding for Certification.

6600 – ENGINEERING DESIGN (Grade 9)**1 CREDIT**

This course is an introductory course to the world of engineering, which focuses on developing student problem solving skills. The course will cover units on the history of engineering, engineering career paths, portfolio development, the design process, sketching, geometric relationships, modeling, assembly, analysis, documentation, presentation, production, and marketing. A large portion of this course will be completed using Autodesk Inventor 3D-modeling engineering design software. Students will work on a variety of different types of problem solving oriented projects. This course contains applied physics and mathematics in an engineering context. Students must have credit in or be enrolled in the required math and science classes. **Prerequisites:** Referral/placement.

6610 – ENGINEERING PRINCIPLES (Grade 10)**1 CREDIT**

The course is focused on increasing students' knowledge of engineering related skills. The class will cover units on technical writing, sketching, and engineering as a profession. It also will present the students with design challenges in the fields of mechanics, simple machines, robotics, structural stress analysis, and projectile motion. The course also relates engineering to social and political consequences of technical change and innovation. This course contains rigorous applied physics and mathematics in an engineering context. Students must take and pass Introduction to Engineering Design and have the required math and science credits. **Prerequisites:** Referral/placement and Introduction to Engineering.

6620 – DIGITAL ELECTRONICS (Grade 11)**1 CREDIT**

Digital Electronics is a course of study in applied digital logic. Students will be introduced to digital circuits found in video games, watches, calculators, digital cameras, and thousands of other devices. Students will study the application of digital logic and how digital devices are used to control automated equipment. The use of digital circuitry is present in virtually all aspects of our lives and its use is increasing rapidly. This course is similar to a first semester college course and is a required course of study for PLTW students. **Prerequisites:** Referral/placement and Principles of Engineering.

6630 – ENGINEERING CAPSTONE (Grade 12)**1 CREDIT**

This course is the senior capstone course of the pre-engineering sequence. Students will work in teams to research, design, and construct a solution to an open-ended engineering problem. Students will learn how to solve technical problems by following the same tried-and-true methodologies that scientists and engineers use on a daily basis. Students will present progress reports, submit a final written report, and present their solutions to a panel juried reviewers at the end of the course. This is an invaluable experience for students entering an engineering or technical field. **Prerequisites:** Referral/placement and Digital Electronics.

6640 – BROADCASTING TECHNOLOGY I (Grades, 9, 10, 11, 12)**.5 CREDIT**

This class provides students with the knowledge and skills needed to produce content for a live daily student-produced television show that is aired to the High School and the Logan community. Students learn the basics of camera operation, shot ID and shot selection. Students also will learn how to edit audio and video using software such as I-Movie, Final Cut Express, and Garage Band. Students will learn the operation of industry specific equipment such as booms, microphones, and tripods. Students will learn to write copy for news stories and public service announcements (PSA). Students will also make music videos. The goal for each project is to have it make the air on our live broadcast. **Prerequisites:** Referral/placement.

6650 – BROADCASTING TECHNOLOGY II (Grades 10, 11, 12)**.5 CREDIT**

This class is the “on-air” component of Broadcasting Technology I. Students create a live show that airs to the High School and the Logan Community. The class consists of two teams of 10 students each. The teams consist of a Director, Audio, Video, 2 News Anchors, Sports Anchors, Weather Anchor, News Graphics, Sports Graphics, and Camera Operator. Students fill each of these rolls for the daily live broadcast. The team that is not “on-air” will be creating extended content that will air at night and on weekends. **Prerequisites:** Referral/placement and Broadcasting Technology I.

6670 – ROBOTICS (Grades 11, 12)**1 CREDIT**

This class will explore both the mechanical and programming aspects of robotics and automation. The first section of the class is spent learning C, an industry standard programming language. This transitions into Interactive C, which is used with robotic controllers. Building and programming robots will take place during the following stage of the class. There will also be lessons on the technical approach to design, mathematical calculations required, and various laboratory tools and techniques that are helpful in completing the design. Class time will be used for open lab where teams will work on their robots. The class will also explore some issues such as robotics in literature and media, and their impact on society. **Prerequisites:** Referral/placement and Technology Education 2.

6680 – ROBOTICS II (Grade 12)**1 CREDIT**

This course is a continuation of Robotics I. In this class, students will learn to program RobotC on VEX controllers. Students will have a more in depth focus on efficient programming techniques and mechanical optimization. Students will also learn to virtually model environments and simulate the robot in these environments. The class will culminate in an independent study robotics project at the end of the year. **Prerequisite:** Referral/placement and Robotics I.

FAMILY AND CONSUMER SCIENCES

6750 & 6760 – SKILLS FOR LIVING (*Grades 9, 10*)

1 CREDIT

This course will cover subjects to assist students in becoming productive adults. Topics to be covered are developing a healthy lifestyle, learning strategies for personal development and decision making, maintaining family and personal relationships and caring for your personal and home environment.

6800 – LIFE PLANNING (*Grade 12*)

.5 CREDIT

This semester course is designed for the senior who is entering the workforce or the military. This course provides the students with a wide range of subjects to assist them in becoming productive adults. A major emphasis will include managing one's personal finances and the work application process. Topics to be covered: saving and investing, credit, insurance, taxes and social security, spending patterns and budget planning and résumé building.

6860 – FOOD & NUTRITION (*Grades 11, 12*)

.5 CREDIT

This course provides students with knowledge of food's role in society, instruction in how to plan and prepare meals and an understanding of the proper use of equipment and utensils. Students will be introduced to the body's nutritional needs for a healthy life.

6920 – FAMILY RELATIONS (*Grades 11, 12*)

.5 CREDIT

This course emphasizes building and maintaining healthy interpersonal relationships among family members and other members of society. Topics to be discussed include the functions of the family unit and the various stages of the life cycle. Additional topics include social/dating practices, marriage preparation and parenthood.

6960 – PARENTING AND CHILD DEVELOPMENT (*Grades 11, 12*)

.5 CREDIT

The course provides students with knowledge of how parents and child care providers meet the needs of infants and young children. The course will help students recognize how different life styles; value systems and relationships affect children's growth and development. Prominent theories of child development will be discussed.

6980 – INDEPENDENT LIVING (*Grades 11, 12*)

.5 CREDIT

Independent Living is a class for juniors and seniors who are planning to live independently when they graduate. Topics include preparing food needed for a healthy lifestyle, finding a place to live, choosing and caring for clothing, and managing your money.

7220 – SENIOR SEMINAR (*Grade 12*)

.5 CREDIT

The course is designed for seniors who are planning to continue their education at a college or a technical school. This semester course will assist students in the application and financial aid process. Students will work on ACT/SAT testing competencies and other study strategies. Assessment of career plans and the examination of career and collegiate opportunities will be goals of this course. Students will work on communication skills, decision-making and personal assets. This course will also provide the students with an understanding of the concepts and principles involved in managing one's personal finances. **Prerequisites:** Must be currently enrolled in Algebra II and Chemistry or already taken.

AGRICULTURE

7000 – AGRICULTURE, FOOD AND NATURAL RESOURCES (Grade 9)

1.25 CREDITS

This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners will obtain fundamental knowledge and skills in food science, natural resource management, animal science & management, plant & horticultural science, power technology and biotechnology. Students will be introduced to the FFA organization and begin development of their leadership ability. **Prerequisites:** Referral/placement and first year Agriscience student.

7010 – ANIMAL SCIENCE AND TECHNOLOGY (Grades 10-12)

1.25 CREDITS

Learners will develop business leadership, problem-solving and communication skills in relation to the science and technology of animals. Students will learn responsible animal management principles and routine husbandry practices in relation to animal welfare and behavior. Learners will identify and describe the anatomy and physiology of monogastric and ruminant organisms as it applies to nutrition, reproduction, and animal health. Learners will investigate animal genetics and how it impacts principles of animal improvement, selection and marketing. **Prerequisites:** Referral/placement, and Agriculture, Food and Natural Resources.

7015 – VETERINARY SCIENCE (Grades 11-12)

1.25 CREDITS

Learners will develop knowledge of veterinary pharmacology, radiology and imaging techniques, principles of surgery, safe laboratory skills, and the concepts of ethics and professionalism in the work place. Learners will develop skills in inquiry and statistical methods. Learners will describe causes, symptoms, and treatment of common diseases with special emphasis on developing preventative health management plans and breeding programs. Learners will utilize principles of technology to manage information systems, and research issues affecting the industry. **Prerequisites:** Referral/placement, and Animal Science and Technology.

7020 – PLANT AND HORTICULTURAL SCIENCE (Grades 10-12)

1.25 CREDITS

This course in the pathway focuses on the broad knowledge and skills required to research, develop, produce and market agricultural, horticultural, and native plants and plant products. Students will apply principals and practices of plant physiology and anatomy, plant protection and health, reproductive biology in plants, influences in bioengineering, plant nutrition and disorders. Environmental aspects of irrigation, chemical application, soils, and pest management will be studied and applied. Projects and activities will enable students to develop communication, leadership, and business management skills. **Prerequisites:** Referral/placement and Agriculture, Food and Natural Resources or Agriscience I and must be enrolled in your second year of Agricultural.

7030 – STRUCTURAL ENGINEERING (Grades 10-12)

1.25 CREDITS

Students will apply principles of engineering and design along with an understanding of the properties and uses of construction materials to buildings and structures used in agriculture, horticulture and natural resources. The course will focus on the study and utilization of wood and lumber, metals, concrete and masonry, pipes and plumbing, and electrical systems. Students will design, plan, build and calculate costs-benefits analysis for construction projects while abiding by all building code and safety regulations. **Prerequisites:** Referral/placement and Agriculture, Food and Natural Resources. Cannot be taken more than once.

7035 – AGRICULTURAL AND INDUSTRIAL POWER (Grades 11 & 12)

1.25 CREDITS

The A&I *Power* course will introduce students to the breadth of the Agricultural and Industrial Power Technology pathway. Students will learn the principles of agricultural and industrial power technology equipment systems including electronic, electrical, engines, fuel, hydraulics, and power trains. Additionally, students will learn to operate and maintain agricultural & industrial equipment. **Prerequisites:** Referral/placement and Agriculture, Food and Natural Resources.

7050 – COMMUNICATIONS AND LEADERSHIP (Grade 11 & 12)

1.25 CREDITS

Students will analyze attributes and capabilities of those in leadership positions and develop their communication and leadership skills in authentic situations. The course prepares students to apply journalistic, communication and broadcasting principles to the development, production, and transmittal of agricultural and environmental systems information. **Prerequisites:** Referral/placement and Agriculture, Food and Natural Resources.

7060 – A & E CAPSTONE (Grades 10-12)

1.25 CREDITS

Students will study a variety of Agricultural concepts based on the career development events offered through the FFA. **Prerequisites:** Referral/placement and Agriculture, Food and Natural Resources or Agriscience I and currently enrolled in another Agricultural Course.

7090 – GREENHOUSE AND NURSERY MANAGEMENT (Grades 10-12)

1.25 CREDITS

The course will apply principles of science, engineering, and business to support the sustainable propagation and production of plants in a commercial nursery or greenhouse facility. Management of soil/media, water and nutrient distribution, lighting, ventilation and temperature, and pests will be learned and applied. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Students will develop successful business, communication, marketing, and sales strategies for use in the greenhouse and nursery industries. **Prerequisites:** Referral/placement and Agriculture, Food and Natural Resources

ARTS AND THEATRE ARTS

8050 – ADVANCED ART 2 (Grades, 10, 11, 12)

1 CREDIT

Students will build on the techniques, processes and knowledge explored in the Art I course. This course will emphasize the development of fine art technique along with an increased attention to the competent communication of visual language. Art students will be expected to begin discussing their artwork and will be asked to consider their imagery more carefully. Art students will also learn how to interpret and discuss artwork competently. At the completion of this course, art students will be skilled in many art techniques and will also possess a much deeper understanding of art. **Prerequisites:** Referral/placement and Art 1.

8070 – ART 1 (Grades 9, 10, 11, 12)

.5 CREDIT

This course is designed for any student that is interested in Art. Art I is designed to build a foundation for the higher-level Art courses offered in the Visual Arts Department. Students will learn a variety of techniques including drawing, painting, printmaking and ceramics. Art I is a perfect course for students that want to learn how to draw and paint, and wish to prepare themselves to participate in upper level Art courses. Grading is based on completion of in-class assignments, class participation and individual improvement.

8080 – ART 2 (Grades, 10, 11, 12)

1 CREDIT

This course will emphasize the development of fine art technique along with an increased attention to the competent communication of visual language. Art students will be expected to begin discussing their artwork and will be asked to consider their imagery more carefully. Art students will also learn how to interpret and discuss artwork competently. At the completion of this course, art students will be skilled in many art techniques and will also possess a much deeper understanding of art. **Prerequisite:** Art 1.

8090 – ART 3 (Grades 11, 12)

1 CREDIT

In this advanced art course students will be able to construct two and three-dimensional compositions reflecting their knowledge and understanding of the basic art elements. Students will be encouraged to work independently while developing their own styles and techniques. Evaluation is based on individual assignments, class participation and individual improvement. A sketchbook and art portfolio will be required. **Prerequisites:** Referral/placement and Art 2, and a portfolio.

8100 – ART 4 (Grade 12)

1 CREDIT

This art course emphasizes the individual development of both two and three-dimensional design. Students will learn proper steps in constructing a professional art portfolio along with developing an awareness of art-related careers. A field trip and scheduled visits from college representatives will be included in the curriculum. Evaluation is based on an art portfolio presentation. A sketchbook will be required. **Prerequisites:** Referral/placement and Art 3, and a portfolio.

8110 – ADVANCED ART 3 (Grades 11, 12)

1 CREDIT

This course continues the advanced art training students received in the Advanced Art 2 Class and is designed for students intending to continue on to take the Advanced Art Placement Studio Art Class their senior year. This course will serve as a “Pre-AP Class” in order to introduce students early to the three-part Advanced Placement Portfolio processes. Students will work on the Breath section of their portfolio during their junior year clearing the way for the in-depth study necessary to produce the Concentration and Quality sections as seniors. These students will have the opportunity to explore past and newly acquired techniques at a more advanced level as well as continue to explore and gain competence in their visual language, art interpretation and art critique skills. Students will have an opportunity to work in and combine a wide variety of media, as well as apply their knowledge of the elements of art and principles of design as they expand their portfolio. Portfolio work created in the student’s previous art classes will be evaluated and added to throughout the year, culminating in an expensive portfolio illustrating the breadth of media and styles and the artist is capable of producing. **Prerequisites:** Referral/placement and Advanced Art 2, and a portfolio

8120 – AP STUDIO ART (Grade 12)

1 CREDIT

The Advanced Placement (AP) Studio Art Program enables highly motivated students to do college-level work in studio art while still in high school. AP Studio Art is not based on a written examination; instead, students submit a portfolio of work for evaluation at the end of the school year. The program is intended for students seriously committed to studying art. Students participating in the program should strive to produce high quality artwork, and their submitted portfolios should reflect this effort. The three required sections of the portfolio are: quality, concentration and breadth. **Prerequisites:** Referral/placement and Art 1, 2, 3, a portfolio and completion of summer assignments.

8130 – CERAMICS & POTTERY DESIGN (Grades 9, 10, 11, 12)

.5 CREDITS

First time students in Ceramics and Pottery Design will learn the fundamentals of working with clay, including hand building, working on the potter’s wheel, and sculpture, as well as glazing and other surface design techniques, kiln firing and portfolio development, Students who choose to repeat the course have an opportunity to explore the introductory material in more depth. Repeatable up to eight times.

8140 – PHOTOGRAPHY & PHOTOCRAFTS (Grades 11, 12)**.5 CREDIT**

Photography & photocraft is a designed to revisit standard darkroom technologies as well as the modern digital image. Beginning students will be introduced to 35 MM black and white photography that includes chemical processing of film and prints. Techniques explored will include exposure (35 MM SLR camera), developing and printing images. Digital imaging will be explored through use of PIXLR as students will be manipulating the digital image on computers in a lab setting. Repeating student may explore an avenue of interest in greater depth. Other projects may include, but are not limited to, framing and presentation, photo transfer, history of photography, important photographers of the last century and artistic composition Repeatable up to three times.

8200 – THEATRE ARTS SURVEY (Grades 9, 10, 11, 12)**.5 CREDIT**

Theatre Arts Survey is a beginning Acting class. This course addresses such topics as improvisation, working together in a group, and the various technical areas involved in putting a show on stage. Evaluation is based on participation, performance and written work. The final exam for this course is the performance of a one-act play for the public at the end of the semester. Theatre Arts Survey is open to all students in grades 9-12, and is a repeatable course.

8210 – THEATRE 2 (Grades 10, 11, 12)**.5 CREDIT**

Theatre 2 is an advanced theatre course that focuses on acting techniques, directing, and design for the theatre. This semester course is open to students in grades 10-12 with prior theatre experience AND permission from the instructor. It is a repeatable course. **Prerequisite:** Theatre Arts 1.

8220 – PROCESS DRAMA (Grades 9, 10, 11, 12)**.5 CREDIT**

This class focuses on drama skills within the classroom and does not require a public performance as its final exam. Process Drama uses improvisation, role play, critical thinking skills, and storytelling, along with problem solving, writing and reflection, interpretation and movement. Evaluation is based on both individual and group work, projects, classroom presentations and written assignments.

8230 – ANCIENT WORLD DRAMA (Grades 10, 11, 12-offered during start of even years)**.5 CREDIT**

Ancient World Drama is a semester course covering plays from Ancient Greece through Shakespeare and Moliere. Students will read: Oedipus, Medea, Othello, A Midsummer Night's Dream, and The Misanthrope. Ancient World Drama is an excellent preparatory course for college and also the AP English exam, as it focuses on analysis of classical literature. Methods of study include reading, class discussion, drama techniques, written response and film comparisons. Open to students in grades 10-12 who have a strong background and/or interest in English or Theatre.

***Not offered during the 2013-2014 school year.

8240 – CONTEMPORARY WORLD DRAMA (Grades 10, 11, 12-offered during start of odd years)**.5 CREDIT**

Contemporary World Drama is a semester course covering theatre from the modern period and focusing on American drama as well. Contemporary World Drama is an excellent preparatory course for college and also the AP English exam, as it focuses on analysis of classical literature. Methods of study include reading, class discussion, drama techniques, written response and film comparisons. Open to students in grades 10-12 who have a strong background and/or interest in English or Theatre.

8250 – CRAFTS (Grades 9, 10, 11, 12)**.5 CREDIT**

Crafts is an introductory design course that will include a wide range of various materials and techniques in both two-dimensional and three-dimensional design. Students will work in alternative media not covered in Art 1, 2, 3, 4 which may include, but not limited to, ceramics, jewelry making (bead making, macramé, metal, etc.) fabric (sewing and dyeing) and many other projects made with found objects (recycled art). Repeatable students will have opportunities to explore mediums of choice and pursue that area in depth. Repeatable up to four times.

8260 – VIDEO PRODUCTION AND AESTHETICS (Grades 10, 11, 12)**1 CREDIT**

Video Production and Aesthetics deals with both artistic and technical aspects of video. Students will learn film terminology, aspects such as camera angle, style, framing and sound, and video production techniques. Class time will consist of lecture, film clip observation, and lab time where film shorts will be produced. Students will become proficient with the digital video camera, I-Movie, image editing, and Garage Band. Students in VPA must be able to work independently and in a group on film projects, filming outside of school hours.

MUSIC

8340 – ASSEMBLY SINGERS (*Grade 9 & 10*)**1 CREDIT**

This is a choir for female students in grade 9 or 10 who enjoy singing. The Assembly Singers perform in two major concerts each year and are required to attend every performance. This is a women's chorus. In addition, grades will be based on Self Evaluations and Class Participation/Attendance.

8350 – SYMPHONIC CHOIR (*Grades 9, 10, 11, 12*)**1 CREDIT**

This is a choir for students in grades 9, 10, 11 and 12 who enjoy singing and is open to any student. This is a mixed choir. The choir performs two major concerts each year. The primary objective of choir is performance and, therefore, members are required to attend every performance. In addition, grades will be based on Self Evaluations and Class Participation/Attendance.

8360 – CHAMBER SINGERS (*Grades 9, 10, 11, 12*)**1 CREDIT**

This select ensemble is designed to provide a challenging atmosphere for those students in grades 9 through 12 interested in choral music. This is a mixed ensemble. All performances are required which include two full-length concerts, contest and various other performances throughout the year. Grades will be based Class Participation, Self Evaluation, and Concert Etiquette. Auditions are held for membership. **Prerequisite:** Referral/placement.

8380 – HILLTOP SINGERS (*Grades 9, 10, 11, 12*)**1 CREDIT**

The Hilltop Singers show choir is a group of auditioned singers who perform frequently throughout the school year, including two major concerts. Attendance at numerous performances and rehearsals outside of the school day are a mandatory part of membership. In addition, grades will be based on participation, attendance at performances. Auditions are held for membership. **Prerequisite:** Referral/placement.

8400 – WOMEN'S CHORUS (*Grades 9, 10, 11, 12*)**1 CREDIT**

This choir is for females, grades 9-12, who are interested in singing at an advanced level. Women's Chorus performs at two major concerts during the school year as well as participation in contest. Members are required to attend every performance. In addition, grades will be based on Self Evaluations and Class Participation/Attendance. **Prerequisite:** Referral/placement.

8450 – MEN'S CHORUS (*Grades 9, 10, 11, 12*)**1 CREDIT**

This choir is for males, grades 9-12, who are interested in singing a variety of repertoire written for the female chorus. Men's Chorus performs at two major concerts during the school year. Members are required to attend every performance. In addition, grades will be based on attitude, participation, attendance at rehearsals and periodic quizzes and exams.

8600 – SENIOR BAND (*Grades 9, 10, 11, 12*)**1 CREDIT**

Admittance to this class is by audition. An intermediate level of achievement is expected of all participants. The Belwin Intermediate Method, Rubank Intermediate Method, Rehearsal Fundamentals Method, or any other similar method of equal difficulty will be used to determine competency. This class will expose all students to a marching band and concert band experience, plus the opportunity to try out for additional groups such as jazz band, pep band, show band, or various ensembles. All members are expected to attend all rehearsals and performances. Grades will be determined by individual playing, auditions of the materials being prepared for performance and fundamentals rehearsed in any given grading period. **Prerequisite:** Successful completion of band course during the previous year.

8700 – JAZZ BAND (*Grades 9, 10, 11, 12*)**.25 CREDIT**

Admittance to this class is by audition and/or permission of the director. Class meets on Tuesdays and Thursdays from 3:10 to 4:00 p.m. Students will be exposed to jazz, swing, rock and popular music. Rehearsal, performance, attendance and preparation of music determine grades. **Prerequisite:** Referral/placement.

8800 – MUSIC THEORY (*Grades 11, 12*)**.5 CREDIT**

This class is designed for the student who is serious about studying and analyzing music in preparation for college or a career in music. Students will be required to have completed a full year in Senior Band, or any choir/chorus before taking this class. **Prerequisite:** Referral/placement.

HEALTH & PHYSICAL EDUCATION

9100 – GIRLS PHYSICAL EDUCATION 1 (*Grades 9, 10*)

.25 CREDIT

Physical Education 1 will encompass areas in sports and recreational activities, as well some basic weight training and fitness activities. Its purpose is to help the student understand simple to complex body movement, as well as a general understanding of the five fitness components. Using this knowledge in an enjoyable yet healthful manner, the student will be required to participate in and dress for class every day for one semester (18 weeks). While participating in team sports, students will learn how to work with others toward a common goal, obtain basic skills needed to perform in a chosen sport, as well as understand the key rules of the game. Fitness activities and weight training will provide the students with a basic understanding of the principles of fitness.

9110 – GIRLS PHYSICAL EDUCATION 2 (*Grades 9, 10*)

.25 CREDIT

Physical Education 2 is an advanced physical activity course designed to cover beyond what the general Physical Education class offers. Students will again be required to participate in and dress for class every day for one semester (18 weeks) and will continue participating in team sports on a more advanced level that will enable the students to design plays and “coach.” This course is also designed to provide sound information for developing a systematic program of exercise and physical activity that best fits the individual needs of the student. Students will learn how to build up and improve in each of the five health related parts of physical fitness: strength, cardiovascular fitness, muscular endurance, flexibility, and body composition, through working out in the weight room and participating in fitness activities. Students will also learn to prepare for exercise and how to set goals as well as develop a fitness plan to reach those goals. **Prerequisite:** Girls Physical Education 1.

9200 – BOYS PHYSICAL EDUCATION 1 (*Grades 9, 10*)

.25 CREDIT

Physical Education 1 will encompass areas in sports and recreational activities, as well some basic weight training and fitness activities. Its purpose is to help the student understand simple to complex body movement, as well as a general understanding of the five fitness components. Using this knowledge in an enjoyable yet healthful manner, the student will be required to participate in and dress for class every day for one semester (18 weeks). While participating in team sports, students will learn how to work with others toward a common goal, obtain basic skills needed to perform in a chosen sport, as well as understand the key rules of the game. Fitness activities and weight training will provide the students with a basic understanding of the principles of fitness.

9210 – BOYS PHYSICAL EDUCATION 2 (*Grades 9, 10*)

.25 CREDIT

Physical Education 2 is an advanced physical activity course designed to cover beyond what the general Physical Education class offers. Students will again be required to participate in and dress for class every day for one semester (18 weeks) and will continue participating in team sports on a more advanced level that will enable the students to design plays and “coach.” This course is also designed to provide sound information for developing a systematic program of exercise and physical activity that best fits the individual needs of the student. Students will learn how to build up and improve in each of the five health related parts of physical fitness: strength, cardiovascular fitness, muscular endurance, flexibility, and body composition, through working out in the weight room and participating in fitness activities. Students will also learn to prepare for exercise and how to set goals as well as develop a fitness plan to reach those goals. **Prerequisite:** Boys Physical Education 1.

9410 – FITNESS FOR LIFE (*Grades 11, 12*)

.50 CREDIT

Fitness for Life is an advanced physical activity course designed to cover beyond what the general Physical Education class covers. This course is designed to help the students understand the basis of physical fitness and to provide sound information for developing a systematic program of exercise and physical activity that best fits the individual needs of the student. Classroom lessons instill fitness knowledge, critical thinking skills and self-responsibility. The physical activity lessons provide students ample opportunities to participate in a wide variety of physical activities throughout the course. Students will learn how to build each of the five health related parts of physical fitness: strength, cardiovascular fitness, muscular endurance, flexibility, and body composition. Students will learn to prepare for exercise and learn how to set goals and develop a fitness plan to reach those goals. Students will participate and test themselves in a variety of activities that may be carried over into a lifetime of physical activity. Students interested in improving their personal fitness or going into a health or fitness related field would benefit from this class. **Prerequisite:** .50 credit of Physical Education.

9420 –WEIGHT TRAINING & CONDITIONING (*Grades 11, 12*)

.25 CREDIT

Students will participate in activities designed to improve muscle tone, quickness and cardiovascular fitness. To improve physical fitness, students will be. Required to participate in weight training, plyometrics and running. This course is designed for anyone interested in increasing strength and endurance. **Prerequisite:** .50 credit of Physical Education.

9600 – HEALTH (*Grade 9*)

.5 CREDIT

Ninth grade health is designed to involve students in discussions and presentations of general information concerning behavior, physical and mental health. The relationship of tobacco, drug and alcohol use to behavior and mental health, communicable diseases and human reproduction are included in the course material. The course is designed to inform students of facts so that each may make educated decisions concerning his/her future lifestyle.

9650 – ADVANCED HEALTH (*Grades 11, 12*)

.5 CREDIT

This course is designed to go beyond the realm of the basic health that was discussed in Health 9. This course is designed to enable students to be critical thinkers and make them aware of current health topics and how they affect their lives. Advanced health will be designed to take a problem-based approach to looking at diseases and illnesses and where overall health relates to some of these disorders. In this course there will be much discussion and debate on topics such as nutrition (diets), abortion, HIV/AIDS, drug laws, and health insurance that are controversial in the world related to health. We will also talk about the various health occupations that a student may choose and paths that need to be taken if you choose these careers. There will be speakers coming to talk about some of these careers throughout the year. In addition to discussion and debate, students in this course can expect to do presentations to their peers on topics related to this course, such as careers that they have researched. **Prerequisite:** Health 9.

COLLEGE AND CAREER PLANNING

OHIO CORE PATHWAY (College Prep)				
	9th Grade	10th Grade	11th Grade	12th Grade
ENGLISH	English 1 Honors English 1 CLS English 1 (Electives) Journalism 1	English 2 Honors English 2 CLS English 2 (Electives) Journalism 1 or 2	English 3 Honors English 3 AP English 3 (Electives) Journalism 1 or 2	English 4 Honors English 4 AP English 4 (Electives) Journalism 1 or 2
MATH	Algebra I Geometry Honors Geometry	Geometry Intermediate Algebra Algebra II Honors Algebra II	Intermediate Algebra Algebra II Algebra II Pre-Calculus Statistics Pre-Calculus Statistics	Algebra II Pre-Calculus Statistics Pre-Calculus Algebra III AP Calculus Statistics AP Calculus Statistics Algebra III
SCIENCE	Physical Science Honors Physical Science	Biology Honors Biology Chemistry	Chemistry Physics AP Biology AP Chemistry AP Physics AP Environmental Science Bio-Med 1 & 2	Physics AP Biology AP Chemistry AP Physics Bio-Med 3 & 4 AP Environmental Science
SOCIAL STUDIES	World History World History 9	American History 10 Honors American History 10	Government Economics Civil War Psychology Sociology World Geography Ancient World History Modern World History Street Law AP Government	Civil War Economics Psychology Sociology World Geography Ancient World History Modern World History Street Law AP Government
HEALTH & PHYSICAL EDUCATION	Health 9 Physical Education (Should take 2 semesters during 9 th or 10 th Grades)	Physical Education (Should take 2 semesters during 9 th or 10 th Grades)		
FOREIGN LANGUAGE	Spanish 1, 2 French 1, 2	Spanish 1, 2, 3 French 1, 2, 3	Spanish 1, 2, 3, 4 French 1, 2, 3, 4	Spanish 1, 2, 3, 4 French 1, 2, 3, 4
ELECTIVES				
FINE ARTS	Must complete at least 2 semesters of fine arts taken any time during grades 7-12.			
ECONOMICS & FINANCIAL LITERACY	Must receive instruction in economics and financial literacy during grades 9-12			

**CAREER-TECHNICAL PATHWAY
(Ohio Core Opt Out)**

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
ENGLISH	English 1	English 2	English 3	English 4
MATH	Algebra I	Geometry Intermediate Algebra	Intermediate Algebra Geometry Algebra II	Intermediate Algebra Geometry Algebra II Consumer Math
SCIENCE	Physical Science	Biology	Forensics Geo-Environmental Science	Forensics Geo-Environmental Science
SOCIAL STUDIES	World History	American History	Government Economics Civil War Psychology Sociology World Geography Ancient World History Modern World History Street Law	Economics Civil War Psychology Sociology World Geography Ancient World History Modern World History Street Law
HEALTH & PHYSICAL EDUCATION	Health 9 Physical Education (Should take 2 semesters during 9 th or 10 th Grades)	Physical Education (Should take 2 semesters during 9 th or 10 th Grades)		
ELECTIVES				
FINE ART	Must complete at least 2 semesters of fine arts taken any time during grades 7-12.			
ECONOMICS & FINANCIAL LITERACY	Must receive instruction in economics and financial literacy during grades 9-12			

***** Students following the career-technical pathway are exempted from the fine arts requirement.