

The following information is provided to assist students in making course selections. Graduation requirements have changed significantly since parents were in high school. Students and parents are encouraged to carefully consider the student's goals, strengths and previous achievement when selecting courses. Refer to the instructions given to students with registration forms.

## I. Grade Placement & Graduation Requirements

### A. Grade Level Assignment

- Grade 9- promotion/transfer from grade 8
- Grade 10- 1 year of high school completed
- Grade 11- 2 years of high school completed
- Grade 12- 3 years of high school completed

### B. Graduation Requirements Classes of 2012 & 2013

1. Completion of 21 credits including the following:
  - 4 credits of English
  - 3 credits of mathematics
  - 3 credits of science including physical science and biology
  - 3 credits of social studies including US history, world cultures and American government
  - 1/2 credit of health and 1/2 credit of physical education
  - 1 credit from business, technology, fine arts **or** foreign language
2. Ohio Graduation Tests
  - a. Pass all five tests: writing, reading, mathematics, social studies, and science.
  - b. Students will have at least 5 opportunities to pass each test.
  - c. Once a test is passed, it need never be repeated.

### C. Graduation Requirements Classes of 2014 & 2015

1. Completion of 21 credits including the following:
  - 4 credits of English
  - 4 credits of mathematics
  - 3 credits of science including physical science and biology
  - 3 credits of social studies including US history, World History, and American government
  - 1/2 credit of health and 1/2 credit of physical education
  - 1 credit fine arts or 1 year of 7<sup>th</sup> or 8<sup>th</sup> grade band.
  - 5 credits of electives from any combination of 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
  - 1 additional elective credit if middle school band is used to meet fine arts requirement.
2. Ohio Graduation Tests
  - a. Pass all five tests: Writing, Reading, Mathematics, Social Studies, and Science.
  - b. Students will have at least 5 opportunities to pass each test.
  - c. Once a test is passed, it need never be repeated.

#### D. Diplomas with Honors Criteria

*Students must meet all but one criterion for either of the following Diplomas with Honors*

<b>Subject</b>	<b>High School Academic Diploma with Honors Graduating Classes 2011 and Beyond</b>		<b>Subject</b>	<b>Career-Technical Diploma with Honors for Graduating Classes 2011 and Beyond</b>
<b>English</b>	4 units		<b>English</b>	4 units
<b>Mathematics</b>	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content		<b>Mathematics</b>	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
<b>Science</b>	4 units, including physics and chemistry		<b>Science</b>	4 units, including physics and chemistry
<b>Social Studies</b>	4 units		<b>Social Studies</b>	4 units
<b>Grade Point Average</b>	3.5 on a 4.0 scale		<b>Grade Point Average</b>	3.5 on a 4.0 scale
<b>ACT/SAT Score [excluding scores from the writing sections]</b>	27 ACT / 1210 SAT		<b>ACT/SAT Score [excluding scores from the writing sections]</b>	27 ACT / 1210 SAT
<b>Foreign Language</b>	3 units, including at least 2 units in each language studied		<b>Career-Technical</b>	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.
<b>Fine Arts</b>	1 unit		<b>Additional Assessment</b>	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent.

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

- ½ unit physical education
- ½ unit health
- ½ unit in American history
- ½ unit in government

### **III. Curriculum Paths**

The following information is intended to assist students to select classes that will help them achieve their goals.

- A. Students planning to attend Laurel Oaks should consider the following when selecting courses:
  - 1. It is important to pass all required classes in grades 9 and 10. Students who enter Laurel Oaks with no course deficiencies will have greater opportunities for first choice of programs, apprenticeships, and job placement.
  - 2. Laurel Oaks places an emphasis on attendance when giving consideration for admission to their competitive programs.
  - 3. Taking challenging courses in grades 9 & 10 will better prepare students for Laurel Oaks more competitive programs as well as for opportunities to enroll in tech prep programs or take college courses while at Laurel Oaks.
  
- B. Students planning to enlist in one of the armed forces after graduation should consider the following:
  - 1. All services currently require high school graduation. Be sure you stay on schedule to graduate by passing all required courses each year.
  - 2. Services currently require testing for admission and they base job placement on that testing. The best preparation for that test, the ASVAB, is the strongest high school program your ability will permit (math, English, science, and computer skills are especially helpful).
  - 3. For technical jobs in the service, prepare by completing the two year college preparatory program. See section D, below.
  
- C. Students planning to work after graduation:
  - 1. Select courses that are related to jobs in which you are interested. Give strong consideration to attending Laurel Oaks to obtain job training.
  - 2. Take the strongest program your ability allows. The better your school record, the more job options you will have. This will also keep the options of attending college or technical school open to you should your goals change.
  
- D. Students planning to attend a 2-year college or technical school:
  - 1. 4 credits of English
  - 2. 4-5credits of math, depending on area of interest
  - 3. 4-5 credits of science, depending on area of interest
  - 4. Courses related to fields that interest you
  - 5. Selective schools and more selective programs will require you to have the higher levels of preparation; investigate.
  - 6. Develop your computer skills.

- E. Students considering attendance at a 4-year college:
1. 4 credits of college preparatory English, preferably honors level
  2. 4-5 credits of math, including Algebra I, Geometry, and Algebra II, preferably honors level
  3. 4-5 credits in college preparatory science, depending on goals and college
  4. 4 or more credits of social studies
  5. 2 years of a single foreign language, some colleges recommend 3 credits
  6. At least 1 credit of fine arts
  7. Computer courses are very helpful, but not required
  8. Take courses related to your fields of interest
  9. Selective colleges and demanding programs require the higher levels of preparation. AP and other advanced courses are helpful.
- F. Students who have yet to develop specific post-high school plans or goals:
1. Register for a variety of classes. Use your class work to help you explore possibilities.
  2. Select the most challenging path of courses listed above that your abilities will allow. This will keep your options open.

#### IV. Academic Awards

There are a number of awards that students at Lynchburg-Clay High School may attempt to earn. Those available at the time of this printing are listed below. Additional opportunities will be announced as they become available. Each year, award recipients and their parents are invited to attend the Scholastic Awards Banquet which is normally held the first week of May. The criteria for these awards may change at the discretion of the awarding entity.

- A. Valedictorian and Salutatorian: The valedictorian is the student(s) in a graduating class who is earning a Diploma with Honors, has earned the highest 4 year cumulative grade point average (GPA), and has passed at least 5 advanced\* courses; see below. The salutatorian is the student finishing with the second highest GPA, who is earning an honors diploma, has earned the highest 4 year cumulative grade point average (GPA), and has passed at least 5 advanced\* courses.

#### Advanced Courses for Valedictorian/Salutatorian Eligibility\*

AP English	AP US History	Physics
Spanish III	Trigonometry/Pre-calculus	AP Chemistry
Spanish IV	Calculus	Anatomy & Physiology

College coursework taken through Post-Secondary Options or other dual enrollment programs that cover equivalent material and equal at least 1 high school credit may be substituted for the above.

B. Award of Merit: The requirements listed below have been adopted for the Award of Merit. This certificate will be awarded by the State Board of Education to all those who meet the CRITERIA SPECIFIED IN 1 and 3 OR 2 and 3.

1. College Prep Requirements--complete the following minimum requirements
  - a. English - 4 units (May include 1 unit of fundamentals of speech.)
  - b. Mathematics - 3 units (Must include 1 unit of algebra and 1 unit of geometry.)
  - c. Science - 3 units (Must include 2 units from among biology, chemistry, and physics.)
  - d. Social Studies - 3 units (Must include 2 units of history and 1/2 unit of civics or government.)
  - e. Foreign Language - 3 units (Must include no less than 2 units of any language for which credit is sought, i.e., 3 units of one language or 2 units each of two languages.)
  - f. Complete 2 units from one or more of the following, or 2 additional units from one or more of the areas listed A.1 through A.5 above.
    - 1) Business
    - 2) Computer Science
    - 3) Visual or Performing Arts
  
2. Vocational Curriculum Requirements
  - a. Complete a vocational occupational preparation program
  - b. Complete the following curriculum requirements
    - 1) English - 4 units
    - 2) Mathematics - 3 units
    - 3) Science - 2 units
    - 4) Social Studies - 3 unitsApplied academic credits earned via vocational education shall apply to the criteria for the "Award of Merit."
  - c. Complete two units from one or more of the following, or two additional units from one or more of the areas listed in B.2 above.
    - 1) Business
    - 2) Computer Science
    - 3) Foreign Language
    - 4) Visual or Performing Arts
  
3. Performance Criteria (applies to both curricula)
  - a. Maintain above average attendance for grades nine through twelve (compared to a rolling four-year state average). For 2011 the four-year state average is 94.23 percent attendance.
  - b. Demonstrate outstanding achievement in the curriculum as evidence by one of the following: earning the equivalent of an overall grade point average of 3.25 on a four point scale for grades nine through twelve; earning the equivalent of an overall grade point average of 3.5 on a four point scale for grades eleven and twelve; or ranking in the top 25 percent

- of the class, whichever is more inclusive.
- c. Participate for at least two years each in two separate extra-curricular activities.
  - d. Demonstrate outstanding citizenship/character traits as judged by at least four of five members of a select faculty committee.
  - e. Courses for which high school credit has been given in the eighth grade, or as part of the postsecondary option, apply to the criteria for the Award of Merit.
- C. The President's Award For Educational Excellence - This certificate, signed by the President of the United States, along with a lapel pin, is awarded to seniors who meet the following criteria.
1. An overall GPA of at least 3.50.
  2. An ACT or SAT Reading or Math score at or above the 85th percentile.
  3. At least 12 credits of college prep coursework from among the following subject areas: English, Mathematics, Science, Social Studies, and Foreign Languages. All areas must be represented.
- D. Honor Roll - Each 9 week period, students who earn A's and/or B's in all courses and a 9 week GPA between 3.00 and 3.499, will be listed on the Honor Roll. Students who earn Honors the first 3 nine week grading periods will be recognized at the annual academic awards banquet.
- E. High Honors - Each 9-week period, students who earn A's and/or B's in all courses and a 9 week GPA of 3.50 or higher will be listed on the High Honor Roll. Students who earn High Honors the 2nd nine weeks are eligible to order Reds Straight-A Tickets as long as that program is continued by the Cincinnati Reds. Students who earn High Honors the first 3 nine week grading periods will be recognized at the annual academic awards program.
- F. Interscholastic Competitions – Each year the high school sponsors student participation in a wide range of interscholastic academic competitions. Students who participate in such contests will be recognized by the school and may earn recognition and awards from the agency which sponsors the competition.
- G. The Franklin B. Walter Award - One senior from each high school in Highland County is nominated for this award. The Southwest Ohio Educational Service Center selects one senior from Highland County as the recipient. This award is based upon academic achievement, test scores, recommendations and leadership. The Lynchburg-Clay nominee is eligible to apply for the Robert Byrd Scholarship

## V. Scholarship Opportunities

**Many scholarship opportunities are available to graduating seniors, from colleges, churches, businesses, and other organizations. Each year, graduates of Lynchburg earn significant scholarships from local organizations, other outside sources and from colleges to which they apply, with the lion's share of the dollars awarded coming directly from the colleges themselves.**

**Seniors with overall 3.30 or higher GPAs, who have taken a college preparatory program, have better than average ACT scores, and have been involved in extracurricular activities are usually competitive for some scholarship consideration.**

Following is a list of **locally** available scholarships. Number and amounts of these awards vary with availability of funds. All of the awards listed are open to graduating seniors. Note that the following information is subject to change by the awarding agencies.

- The Tom Locke Scholarship – Based on achievement, test scores and leadership. \$1000 renewable. Financial need is considered.
- The Helen Rankin Scholarship – Based on achievement, test scores and leadership. \$1000 renewable. Financial need is considered.
- The Lynchburg Alumni Scholarship - Based on achievement, test scores and leadership.
- The Jeff Wolfe Memorial Scholarship - Based on achievement, test scores and leadership. The applicant must intend to major in education (teaching).
- Lynchburg Masonic Lodge Scholarship – Based upon academic achievement, awards, leadership and a short essay. Financial need is considered.
- The Greg Wilkin Memorial Scholarship - This award is given to seniors who have demonstrated achievement and participation in the Agriculture Education/FFA program and who will be attending college or going into full-time work in agriculture production.
- Lynchburg-Clay Athletic Boosters Scholarship, sponsored by Terry's Grocery Based on athletic participation and awards, and academic performance.
- Lynchburg Area Historical Society - Based on achievement, test scores community service and leadership.
- The Cassner Foundation Scholarships - Renewable for 4 years, this award is based on academic achievement, leadership, and financial need. Last year the winners received \$3,500 towards tuition, renewable for 4 years.
- The Elk's Foundation Scholarship - This award is based upon academic achievement, activities and financial need.
- The Pausch Memorial Scholarships - Highland County seniors planning to attend Ohio State University and major in engineering, or science. Based on academic achievement, goals, and recommendations.

## VI. Method of Determining Grade Point Average

### 1. Formula

$$\frac{(\text{Course Credit}) \times (\text{Grade Point Value})}{\text{Credits Attempted}}$$

### 2. Grade Point Values

Numeric Grade	Letter Grade	Point Value
96-100	A	4.00
93-95	A-	3.67
90-92	B+	3.33
87-89	B	3.00
85-86	B	2.67
82-84	C+	2.33
78-81	C	2.00
75-77	C-	1.67
72-74	D+	1.33
68-71	D	1.00
65-67	D-	0.67
0-64	F	0.00



## *Lynchburg-Clay High School* *Course Descriptions*

Courses offered at Lynchburg-Clay High School at the printing of this publication are described in the following pages. At the time of course registration for the following year information about course additions and deletions will be provided.

The grade levels to whom each course is open are given in brackets [ ] following the name and code number of the course. Course titles followed by **(CP)** are recognized by colleges and by the NCAA as college preparatory. Before each course description, prerequisites may be listed. Prerequisites are requirements that must be met before a given course may be taken. After each description, the amount of credit is given in parentheses ( ). Courses followed by the dollar sign (\$) have a course fee.

Elective courses may be canceled due to low enrollment, therefore selection of alternate courses is important. Most courses meet for a full year. Those that meet for one semester are designated with the abbreviation **(SEM)**.

Students who earn a grade of 74 or less in a course may repeat the course the following year in an attempt to raise that grade. Generally, students will do so in order to meet the prerequisite for continuing in a course sequence. Students who raise grades in this manner will have the higher grade posted on their transcripts in place of the lower grade.

<b><i>ENGLISH</i></b>
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**English I 1410 [9]**

This course will provide students with a basic overview of literature. Students will study a variety of works including novels, short stories, plays, and poems. In addition, students will complete several projects and writing assignments throughout the year with a focus on expository, narrative, and persuasive writing. (1 credit)

**College Preparatory English I 1610 [9] (CP)**

**Prerequisites: 85% in eighth grade language arts courses.**

This course is designed for students who are planning to attend college and will provide students with a broad understanding of literature. The focus of the class will include reading comprehension, strengthening critical thinking, and promoting literary analysis. Students will study a variety of works including novels, short stories, plays, and poems. In addition, students will complete a wide variety of projects and writing assignments throughout the year. Students enrolled in this course will be expected to complete required independent reading and writing homework. (1 credit)

**Honors English I 1810 [9] (CP)**

**Prerequisites: 90% in eighth grade language arts courses.**

This course is designed for students who have an advanced understanding of language arts. Students enrolled in this course will participate in a rigorous classroom curriculum that will prepare them for enrollment in Advanced Placement Literature and Composition their senior year. This course will provide students with an in-depth understanding of literature through the study of a wide variety of novels, plays, poems and short stories. Students will be expected to meet substantial reading demands and purchase all of the novels required for this course. Furthermore, the course will be much more writing intensive than the College Preparatory English I and English I courses. Therefore, students are asked to evaluate their own interest in writing before signing up for the course. Summer reading and a corresponding summer reading assignment are required. (1 credit)

**English II 1420 [10]**

**Prerequisite: Any English I**

This course will provide students with a basic overview of literature. Students will study a variety of works including novels, short stories, plays, and poems. In addition, students will complete several projects and writing assignments throughout the year with a focus on expository, narrative, and persuasive writing. (1 credit)

**College Preparatory English II 1620 [10] (CP)**

**Prerequisite: 75% in College Prep English I or 90% in English I.**

This course is designed for students who are planning to attend college and will provide students with a broad understanding of literature. The focus of the class will include reading comprehension, strengthening critical thinking, and promoting literary analysis. Students will study a variety of works including novels, short stories, plays, and poems. In addition, students will complete a wide variety of projects and writing assignments throughout the year. Students enrolled in this course will be expected to complete required independent reading and writing homework. (1 credit)

**Honors English II 1820 [10] (CP)**

**Prerequisite: 75% in Honors English I or 90% in CP English I.**

This course is designed for students who have an advanced understanding of language arts. Students enrolled in this course will participate in a rigorous classroom curriculum that will prepare them for enrollment in Advanced Placement Literature and Composition their senior year. This course will provide students with an in-depth understanding of literature through the study of a wide variety of novels, plays, poems and short stories. Students will be expected to meet substantial reading demands and purchase all of the novels required for this course. Furthermore, the course will be much more writing intensive than the College Preparatory English I and English I courses. Therefore, students are asked to evaluate their own interest in writing before signing up for the course. Summer reading and a corresponding summer reading assignment are required. (1credit)

**English III 1430 [11]**

**Prerequisite: Any English II.**

This course will provide students with a basic overview of American Literature. Students will study a variety of works by American authors including novels, short stories, plays, and poems. In addition, students will complete several projects and writing assignments throughout the year with a focus on real-life writing applications such as resume and cover letter composition. (1 credit)

**College Preparatory English III 1630 [11] (CP)**

**Prerequisite: 75% in CP English II or 90% in English II.**

This course combines reading and writing development through the study of American literature. American authors studied include Bradford, Poe, Hawthorne, Melville, Wilder, Thoreau, Whitman, Dickinson, Frost, London, Fitzgerald, Twain, and many others. There is an emphasis on historical context, understanding, interpretation, and appreciation of the various selections studied. Students will also prepare for college through vocabulary study, composition, and practice for college entry tests such as the ACT and SAT. Students will practice research skills through several assignments including two formal research papers. (1 credit)

**Pre-Advanced Placement Literature and Composition 1830 [11] (CP) \$**

**Prerequisites: 75% in Honors English II or 90% in College Preparatory English II.**

This course is designed for students who have an advanced understanding of English Language Arts. Students enrolled in this course will participate in a rigorous classroom curriculum that will prepare them for enrollment in Advanced Placement Literature and Composition their senior year. This course will provide students with an in-depth understanding of American Literature through the study of a wide variety of novels, plays, and short stories. Students will be expected to complete all required reading and a substantial amount of required writing for homework throughout the year. Summer reading and a corresponding summer reading assignment are required. Students are required to purchase all novels read in this course. (1 credit)

**English IV 1440 [12]**

**Prerequisite: Any English III.**

Through the study of British Literature, students will improve vocabulary, comprehension, and composition skills. Specific deficiencies are addressed and students will practice several types of writing. Students will review how to use reference materials and write a formal research paper. This course will require students to read for personal enjoyment by choosing books and completing analyses. Practical reading and writing skills for work and personal use are continued. (1 credit)

**College Preparatory English IV 1640 [12] (CP)**

**Prerequisite: 75% in CP English III or 90% in English III.**

This is a course for college-bound students. The course studies British Literature with a thematic approach. Readings emphasize comprehension, interpretation, and appreciation of various selections. Through language, vocabulary study, and composition, the highlights of our literature study include: individualism, culture clashes, political satire, humanity and technology, and societal satire. Students will also complete a formal research paper. Students must purchase all novels read during this yearlong course.

(1 credit)

**Advanced Placement English Literature & Composition 1910 [12] (CP) \$**

**Prerequisite: 75 % in Pre-Advanced Placement Literature and Composition or 90% in CP English III. Fee required for Test; currently \$43.**

This course prepares students for intermediate and advanced college courses by making demands equivalent to those of a full year of college coursework. This rigorous course focuses on refining literary analysis skills. Students will read a substantial body of classic British and world literature and present their analyses in speech and writing that meets college level standards of content and mechanics. Because the course is designed to prepare students to sit for the Advanced Placement test in May, timed writings are emphasized. Out of class writings and summer readings are also required. Students must purchase all novels read during this yearlong course.

(1 Credit)

**Speech and Media 1710 [9-12]**

**Prerequisite: Minimum final average of 80 in previous English class**

This course focuses on the improvement of writing and presentation skills through a variety of assignments, including the production of the high school news program. Students will learn the basics of media broadcasting and become familiar with multimedia productions. This elective course does not fulfill any of the English credits required for graduation

(1 credit)

***MATHEMATICS***

**Pre-Algebra 2410 [9]**

In this class, students work with positive and negative numbers, and solving simple equations and inequalities in preparation for algebra. Pre-Algebra is not considered a college preparatory course, but is highly recommended as an introductory course for Algebra I. Normally completed in middle school.

(1 credit)

**Algebra I 2610 [9-12] (CP)**

**Prerequisite: 75% in Pre-algebra**

This is a beginning class in algebra, emphasizing basic skills in solving simple equations, negative numbers, and solving related word problems. Algebra I will also emphasize skills in simplifying polynomials and learning to factor them. The course includes regular daily work with periodic quizzes and tests. The text and course are designed as college-preparatory algebra; a strong background in arithmetic skills is necessary. (1 credit)

**Honors Algebra I 2710 [9-12] (CP)**

**Prerequisite: 90% in Pre-algebra**

This class will encompass all of the concepts that are covered in Algebra I. Students will go beyond the concepts that are normally taught in college-prep Algebra I. Additional topics will include an introduction to graphing calculators, quadratic and exponential functions, radical and rational expressions/equations. This course is highly recommended for students considering careers in accounting, architecture, engineering, science, pharmacy or other highly competitive fields. (1 credit)

**Geometry 2620 [9-12] (CP)**

**Prerequisite: Algebra I or Honors Algebra I**

Geometry is a composite of plane and solid geometry concepts (with emphasis on plane geometry). Geometry involves being able to recognize and understand a sizable number of new terms and principles not covered in previous mathematics classes. Geometry involves the study of logic and its application to many areas of work and life. A big portion of geometry is developing the ability to prove certain statements or principles using a logical set of steps. Geometry involves working with parallel and perpendicular lines, circles, triangles, parallelograms, rectangles, squares, and many other geometric figures. (1 credit)

**Honors Geometry 2720 [9-12] (CP)**

**Prerequisite: 75% in Honors Algebra I or 90% in Algebra I**

This class will encompass all of the concepts that are covered in Geometry. Students will go beyond the concepts that are normally taught in college-prep Geometry. Additional topics will include proofs, coordinate geometry, expanded coverage of plane geometry and logic. This course is highly recommended for students considering careers in accounting, architecture, engineering, science, pharmacy or other highly competitive fields. (1 credit)

**Algebra II 2630 [10-12] (CP)**

**Prerequisite: Geometry or Honors Geometry**

This course begins with a review of Algebra I and progresses quickly to the study of slopes, functions, quadratic equation, and radicals. Students who achieve at an advanced level in Algebra I, may request to enroll in Geometry and Algebra II the same year. This request must be approved by the current mathematics teacher. (1 credit)

**Honors Algebra II [10-12] (CP)**

**Prerequisite: 75% in Honors Geometry or 90% in Geometry**

Students will learn concepts beyond those taught in Algebra II. Additional topics will include conic sections, introductions to logarithms and solving rational equations. This course is highly recommended for students considering careers in accounting, architecture, engineering, science, pharmacy and other highly competitive fields.

(1 credit)

**Trigonometry/Pre-Calculus 2640 [11-12] (CP)**

**Prerequisite: 75% in Honors Algebra II or 90% in Algebra II**

This class is divided into two basic parts: trigonometry and analytical geometry (with a brief look at calculus). Approximately one semester is spent on the concepts of right triangles and general trigonometry including the use of all trig functions, the laws of sines and cosines, proving trig identities, and solving trig equations, functions, logarithms, and graphing each of these.

(1 credit)

**Calculus 2650 [12] (CP)**

**Prerequisite: 75% in Trigonometry/Pre-Calculus**

This course is an introduction to differential Calculus, Analytic Geometry, functions, limits, continuity of functions, the derivative and its applications, the integral and the fundamental theorem of Calculus.

(1 credit)

**Integrated Math II 2420 [11-12]**

**Prerequisite: Algebra II or Honors Algebra II**

This course combines the concepts from Integrated Math I, Pre-Algebra, Algebra I, and basic Geometry. This course also deals with the type of math problems encountered in everyday life; including calculation of salary, wages, and overtime; filing state and federal Income Taxes; and personal finance problems.

(1 credit)

<b><i>SCIENCE</i></b>
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**Physical Science 3410 [9]**

This class is a less rigorous class designed to meet the needs of students who do not read well or who have previously had difficulty with science. Physical Science meets the requirements for a science credit for graduation, but does not meet the honors diploma requirement, nor is it considered college preparatory.

(1 credit)

**College Preparatory Physical Science 3610 [9] (CP)**

**Prerequisite: 75% in 8<sup>th</sup> grade Science**

This class is a challenging class designed for the average and above average student. CP Physical Science meets the Honors Diploma requirement for a foundational science. This course is designed to give the student a strong foundation in chemistry and physics. The first semester focuses on topics in physics; energy, motion, electricity, magnetism, light, sound and machines. The second semester covers major ideas of chemistry including chemical reactions, bonding, chemical formulas, and nuclear chemistry. Emphasis is placed on laboratory work and student investigation.

(1 credit)

**Biology 3420 [10-11]**

**Prerequisite: Physical Science or CP Physical Science**

This course is designed for students that have completed Physical Science and may be having difficulty with science. There will be a general overview of the characteristics of living things and cells. In addition, students will learn cell processes and some basic genetics. The second semester will include studies of the various ecosystems, biomes and some basic classification. The end of the course will focus on general animal and plant knowledge which may include some basic animal dissection.

**College Preparatory Biology 3620 [10-12] (CP)**

**Prerequisite: 75% in CP Physical Science or 90% in Physical Science**

Biology begins the study of cell structure, cell chemistry, cellular functions and cell reproduction. There is a fairly in-depth study of genetics that includes the structure of DNA and how proteins are made. This is followed by some basic classification and the study of populations, ecosystems and biological communities. Viruses and bacteria will be studied in addition to protists, fungi, plants and animals. When animals are studied, the dissection of earthworms, crayfish, fish and frogs will be required. (1 credit)

**Environmental Science 3430 [11-12]**

**Prerequisites: Physical Science and Biology**

This class will examine the relationships that are present on the planet earth. The students will be able to identify the different cycles, process, environments, and organisms that coexist on the planet and how they interact to allow life to flourish. We will also explore the roll of the human race and review how our species has affected the planet and how we may better steward the planet in the future. Local environments and factors will be examined as well as local and state geology. (1 credit)

**Chemistry 3650 [11-12] (CP)**

**Prerequisite: 75% in CP Biology and Honors Algebra I or 90% in Biology and Algebra I**

Chemistry is a challenging class for the college preparatory student. Chemistry is designed to familiarize the student with the concepts of matter and energy. Atoms, electron structure, molecules and ions, Chemical reactions, formulas and equations, states of matter, acids and bases, organic compounds, and the periodic table will be studied.

(1 credit)

**AP Chemistry 3660 [12] (CP) \$**

**Prerequisite: 75% in Chemistry**

This course is an extension of first-year chemistry and is designed to assist students who are planning post-high school studies in the sciences; medicine, nursing, pharmacy, etc. The course will cover such areas as oxidation-reduction, organic chemistry, and nuclear chemistry. A greater emphasis is placed on laboratory experiences.

(1 credit)

**Anatomy and Physiology 3640 [11-12] (CP)**

**Prerequisite: 75% in CP Biology and have previously passed Chemistry or be enrolled concurrently in Chemistry.**

This course begins with an overview of the human body and its systems. Following the overview an in-depth study of the body systems begins. The endocrine, cardiovascular, digestive, skeletal and muscular systems are some of the topics included in this course. The skeletal and muscular systems are studied extensively along with the anatomy and physiology of the cat and fetal pig (students will be required to dissect a cat and a fetal pig). Various video conference opportunities will be available throughout the year involving different body organs (open heart surgery/knee replacement surgery).

(1 credit)

**Physics 3680 [12] (CP)**

**Prerequisite: 75% in Honors Algebra II or 90 % in Algebra II and 75% in Chemistry**

In this course, the following topics are studied: vectors - force, velocity, acceleration, momentum; energy - work, power, kinetic theory, kinetic and potential, heat and temperature, wave and electromagnetic radiation, "waves" and "particles" and the photoelectric effect.

(1 credit)

<b><i>SOCIAL STUDIES</i></b>
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**Psychology 4810 [11-12] (CP)**

Through discussions, lectures, demonstrations and experimentation, human behavior and its causes will be investigated.

(1 credit)

**Legal Issues I 4510 [10-12] (CP)**

This course is a study of the history, structure, and function of the legal system in America. Topics include criminal and civil processes at the State and federal levels, constitutional issues, courtroom procedures, how the law affects daily life, and explorations into the field of law as a career choice. Course requirement is participation in the Ohio Mock Trial Competition.

(1 credit)



**Legal Issues II 4520 [11-12] (CP)**

**Prerequisite: Legal Issues II**

Students will write in-depth papers on legal issues in the form of case briefs. Required readings from a variety of sources will supplement the classroom materials. Participation in the Ohio Mock Trial Competition is again a requirement. (1 credit)

**Legal Issues III 45#0 [12] (CP)**

**Prerequisite: Legal Issues III**

This course is a continuation of the concepts begun in Legal Issues II. Students will write in-depth papers on legal issues in the form of case briefs. Required readings from a variety of sources will supplement the classroom materials. Participation in the Ohio Mock Trial Competition is again a requirement. (1 credit)

**Advanced Placement American History 4910 [11-12] (CP) \$**

**Prerequisite: 75% in CP English II or III and 90% in World History**

AP American History is designed to provide students with analytical skills and factual knowledge necessary to think critically about problems and events in American history. This course prepares students for intermediate and advanced college courses by making demands upon students equivalent to those of a full year of introductory college coursework. Students who successfully complete the class will be eligible to sit for the AP exam in the spring; those who score well on the exam may be awarded college credit at the college or university at which they enroll upon graduation from high school.

(1 credit)

***FOREIGN LANGUAGE***

**Spanish I 5010 [9-12] (CP)**

**Prerequisite: 90% in 8<sup>th</sup> grade or high school English or 75% in CP or Honors English.**

This course is an introduction to the language with an emphasis on vocabulary, grammar and pronunciation. Written and oral work are required. Class participation is a must. Success in the class requires daily study. (1 credit)

**Spanish II 5020 [9-12] (CP)**

**Prerequisite: 75% in Spanish I**

This course is a continuation of the above course, again emphasizing correctly written and spoken Spanish. More of the complexities and tenses of the language are covered. (1 credit)

**Spanish III 5030 [10-12] (CP)**

**Prerequisite: 75% in Spanish II**

This class continues many of the topics begun in Spanish II, including learning all remaining verb tenses and additional vocabulary. Learning about important Spanish and Latin American authors and reading stories and plays will be included. Conversation and daily speaking will be emphasized. (1 credit)

**Spanish IV 5040 [11-12] (CP)**

**Prerequisite: Minimum grade of 75 in Spanish III**

This class continues many of the topics begun in Spanish III. A greater focus is placed upon Spanish and Latin American authors. Conversation and daily speaking will be emphasized. (1 credit)

***HEALTH AND PHYSICAL EDUCATION***

**Physical Education III/IV 6031 [11-12] 1 Semester**

This class is for juniors or seniors needing to make up a semester of physical education. Students will participate in various team sports, fitness days, and an individual sports unit. The emphasis of this program is to give students the skills necessary to participate in a variety of activities that will enable them to be active for life. This will be accomplished by using the National Physical Education Standards. Students may not enroll in PE III/V and in Weight Training in the same year. (.25 credit)

**Physical Education III/IV 6030 [11-12]**

This elective class will include various team sports, weight training, fitness days, and an individual sports unit. The emphasis of this program is to give students the skills necessary to participate in a variety of activities that will enable them to be active for life. This will be accomplished by using the National Physical Education Standards. Students may not enroll in PE III/V and in Weight Training in the same year. (.5 credit)

**Weight Training 6040 [11-12]**

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will learn basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning. Course includes both lecture and activity sessions. Weight training will take place in the facilities behind the school and student should be prepared to walk outdoors year round to get there. Students may not enroll in PE III/V and in Weight Training in the same year. (.5 credit)

## ***FINE ARTS***

### **Theater Arts I      7210   [9-12]**

This course is designed as an introduction to the theater. Students will develop an understanding and appreciation of theater by completing a variety of in-class activities, assignments, and projects. Students will learn introductory concepts relating to the history of theater, concepts of set design, acting methods, voice training, and script reading. Participation in an after school drama production is not required.

(1 credit)

### **Theater Arts II      7220   [10-12]**

**Prerequisite: completion of Theater Arts I or prior participation in a school play or musical**

This course is designed to provide an opportunity for students to study the theater at an intermediate level. Students will enhance their acting abilities by participating in a variety of acting improvement exercises. In addition, students will deepen their understanding and appreciation of the theater by studying various genres, interpreting and analyzing scripts and performances, and studying playwrights. Participation in an after school drama production is not required.

(1 credit)

### **Theater Arts III      7230   [10-12]**

**Prerequisite: Theater Arts II**

This course is designed to provide an opportunity for students to study the theater at an advanced level. Students will participate in advanced acting exercises, write scripts using a variety of genres, study playwrights, and interpret and analyze a wide variety of scripts and performances. Participation in an after school drama production is not required.

(1 credit)

### **Band 7180   [9-12]**

**Prerequisite: Band Director's approval.**

Members of the band will participate on a daily basis in a performance ensemble and can expect to play at various functions and events throughout the year. Students will be exposed to a variety of musical styles including pop, classical, jazz, swing, rock, and chamber music. In addition to required concerts, participation in the Pep Band during basketball season is required. Students will also be required to participate in the LCHS Veteran's Day assembly, district holiday dinner, and the LCHS graduation ceremony. Assessment will be based upon daily participation, performance participation, and individual quarterly assessments.

(1 credit)

**Percussion Ensemble I 7160 [9-12] \$**

Students will be introduced to the world of percussion music. Students will gain an understanding of percussion techniques, understanding of musical notation and rhythm, and ensemble participation. Students will be assessed daily based upon class participation and individual assessments. Students must purchase required sticks. (1 credit)

**Percussion Ensemble II 7170 [9-12] \$**

**Prerequisite: Completion of Percussion Ensemble I or Director's approval.**

This course is a refinement and extension of the skills learned in Percussion Ensemble I. The goal is to develop a performance ensemble that presents this unique style and form of instrumental music. In addition to class participation, students will perform at various events during the school year which may include: LCHS Variety show, concerts, in-school performances, and traveling performances. Students will be assessed daily based upon class participation and individual assessments. Students must purchase required sticks. (1 credit)

**Art I 7310 [9-12] \$**

Art I teaches the basics of drawing, including two-point perspective and painting; with acrylics and watercolor. Art history and the elements and principles of design are studied. Other media are also introduced. (1 credit)

**Art II 7320 [10-12] \$**

Art II is a continuation of the skills introduced in Art I. (1 credit)

**Art III 7330 [11-12] \$**

In Art III drawing, painting, design, and art history are studied in great depth. Originality and personal style are stressed. (1 credit)

**Art IV 7340 [12] \$**

Art IV is a continuation of the skills, techniques, and media introduced in Art III. (1 credit)

## ***FAMILY & CONSUMER SCIENCES***

All family and consumer sciences courses require the completion of service learning hours each semester outside the classroom.

### **Family and Consumer Sciences I 811112 [9] \$**

Family and Consumer Sciences I comprises two one semester courses:

**Healthy and Safe Food:** Students will study dietary guidelines, My Pyramid food guidelines, and alternative adjustments to changing dietary needs throughout the life cycle. Students will also prepare healthy foods and meals, while learning safe food handling practices as well as practices that help sustain our environment.

**Financial Management I:** Students will learn responsible consumer behavior through studying multiple aspects of personal financial management such as advertising, budgeting, use of credit and banking services. Students will also look at the consumers' rights and responsibilities in today's economy. (1.25 credit)

### **Family and Consumer Sciences II 812122 [10] \$**

Family and Consumer Sciences II comprises two one semester courses:

**Healthy Living:** Students will evaluate factors that influence healthy lifestyles choices, including healthy weight guidelines and healthy food intake patterns. Students will use proper food handling techniques to ensure food safety and cleanliness in the kitchen.

**Career Search:** Students will analyze qualities, behaviors, skills that lead to maintaining healthy relationships while building communication and conflict resolution skills. Students will also practice job search skills, while analyzing career plans and developing a life plan for themselves. (1.25 credit)

### **Family and Consumer Sciences III 813132 [11] \$**

Family and Consumer Sciences III comprises two one semester courses:

**Child Development:** Students will learn skills for building healthy families through studies of parenting styles, child growth and development and related nurturing and care. Students are required to participate in a simulated parenting experience with an electronic, computerized infant simulator.

**Financial Management II:** Students will take an in-depth study at budgeting income and expenses, evaluate different financial institutions, assess the use of credit, use decision making skills to protect their financial health and reduce stress on families due to financial demands. (1.25 credit)

**Family and Consumer Sciences IV 814142 [12] \$**

Family and Consumer Sciences IV comprises two one semester courses:

**Healthy Living II** Students will take an in-depth look at food choices, food preparation and its relation to personal and family health while using proper food handling techniques as they gain deeper experience in the kitchen. Students will be required to transfer experiences by expanding their participation and responsibilities in food preparation in their homes.

**Senior Survey:** Students will experience a variety of areas encompassed in family and consumer and sciences including but not limited to housing the family and clothing the family to meet physical, emotional, and financial needs. (1.25 credit)

***INDUSTRIAL TECHNOLOGY***

**Industrial Technology I 8610 [9-12]**

This course is an overview of several areas of modern industry. The students will utilize advanced technology to explore communications, construction, manufacturing and power. Much of the work will involve computer based learning as well as hands on activities. The material will demonstrate the relationship of core courses to business, industry, career opportunities and everyday life. (1 credit)

**Industrial Technology II 8620 [10-12]**

**Prerequisite: Industrial Technology I**

This course provides additional experience in hands on problem solving. Students are provided with the basic understanding of the technological background the employers are seeking in today's workforce. Students will explore new areas of technology and engage in more in depth study of topics introduced in the first year course.

(1 credit)

***BUSINESS***

**Computer Applications 8420 [10-12]**

**Prerequisite: Introduction to Computers**

Students will gain hands-on experience using computer applications. Students will explore a wide range of activities including the operation of the computer, scanner, printer, and communication devices. Students will use software to excel in word processing, spreadsheets, databases, presentations, and desktop publishing.

(1 credit)

**Desktop Publishing 8430 [11-12]**

**Prerequisite: Computer Applications**

Students will continue to progress in their experience in Computer Applications, while going more in depth into Desktop Publishing. This class will also be responsible for publishing the school newspaper and other programs for the district. (1 credit)

**Desktop Publishing II 8440 [12]**

**Prerequisite: Desktop Publishing I**

Students will continue to hone the skills begun in Desktop I. Students will also learn the basics of web page design. This class is largely an independent study and so is limited to students who have demonstrated in Desktop Publishing that they can work independently.  
(1 credit)

***AGRICULTURAL EDUCATION***

**Agricultural Education I 8210 [9-10] \$**

Introduction to basic animal and plant science with emphasis on livestock terminology, care, and management. Livestock parts and breeds are identified. Tractor and machinery operation are included with an introduction to crop production. Plant growth, fertilizers, liming, and pest control are studied. Shop work includes use of hand and power tools and individual as well as group project construction. Basic recordkeeping principles and marketing procedures are stressed throughout the year. Leadership training through the FFA includes public speaking, various skills contests, community service, conferences, recreational activities, and field trips. Requirements: Each student develops a personal project such as livestock, crops, or work experience that provides experience beyond that found at school. The Agriculture Education teacher supervises the program year round.  
(1.25 credit)

**Agriculture Education II 8220 [10-11] \$**

**Prerequisite: Ag. Ed. I**

More emphasis is placed on maintenance of an on-going supervised agricultural experience project with adequate records. Arc, MIG, and oxy-acetylene welding skills are learned. Plant diseases and insects are identified along with studies in conservation and soil science. Livestock breeding, nutrition, and selection carry significant emphasis. Small engine maintenance and repair, along with more advanced wood project construction are included in shop units. Studies in cooperatives, record summary, and basic farm management are conducted, along with agricultural safety. Leadership development is emphasized through public speaking, office holding, and FFA committee work. Personal development skills which would lead to gaining and holding employment successfully are studied. Requirements: Agricultural experience project and record book completion. Entry in county fair and judging contest participation.  
(1.25 credit)

**Agricultural Education III 8230 [11] \$**

**Prerequisite: Ag. Ed. II**

Continued emphasis is placed upon more advanced areas of livestock and crop production, soil studies, record accounting, and agriculture mechanic skill development. Livestock genetics, handling, and health is stressed. Project construction and electricity is studied, along with emphasis upon machinery reconditioning and management. Skill contests are encouraged to optimize classroom experience. Leadership emphasis is maximized as students fill offices and chair committees, with cooperation and community service as high priorities. Requirements: Expansion of supervised agriculture experience project and records completion, county and state fair entries, and judging contest participation.

(1.25 credit)

**Agricultural Education IV 8240 [12] \$**

**Prerequisite: Ag. Ed. III**

Continued emphasis upon leadership and personal development skills is tied in with added business management work. Job acquisition, maintenance, and career goal-setting are combined with continued advancement in livestock and crop production, ag mechanics, and career orientation. Field trips and job site visits enhance understanding of local job opportunities and government agencies. Safety in the work site is also reemphasized. A trip to Chicago for a tour of the Board of Trade is included. Maintaining an up-to-date account book and participation in various FFA activities are required.

(1.25 credit)