

# ***Liberty Center High School*** **2018-2019 Curriculum Guide**

## **GRADUATION REQUIREMENTS** **Class of 2018 & Beyond**

### **Credit Requirements:**

English	4 credits	Phys Ed.	½ credit
Math	4 credits	Health	½ credit
Science	3 credits	Fine Arts	1 credit
SocStudies	3 credits	Con. Econ.	½ credit

**AND**

### **Testing Requirements:**

Ohio State Tests: End of Course exams are required for graduation, and students must earn at least 18 points total with the following minimums in each content area:

SocStudies & Science	6 points
English Language Arts	4 points
Mathematics	4 points

## **ATTENTION STUDENTS INTERESTED IN** **FOUR COUNTY CAREER CENTER:**

### **FCCC Minimum Requirements for Acceptance:**

In order to be admitted to the Four County Career Center during the Junior and Senior year, a student must have a minimum of 8 credits. In order to be on track for graduation, students must have completed the following 9 credits:

English	2 credits
Math	2 credits
Science	2 credits
SocStudies	2 credits
Health	½ credit
Phys Ed	½ credit

# **HONORS DIPLOMA REQUIREMENTS**

## **Academic Honors Diploma**

- Four units of English
- Four units of mathematics through Algebra II
- Four units of science that include two advance sciences
- Four units of social studies
- Three units of one foreign language OR two units of two foreign languages
- One unit of fine arts
- Maintain a cumulative grade point average of 3.5 on a 4.0, for eight semesters
- 27 or higher on ACT OR 1280 or higher on SAT

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## **Career Tech Honors Diploma**

- Four units of English
- Four units of mathematics through Algebra II
- Four units of science that include two advance sciences
- Four units of social studies
- Two units of one World Language
- Four units of career-technical courses
- Maintain a cumulative grade point average of 3.5 on a 4.0, for eight semesters
- 27 or higher on ACT OR 1280 or higher on SAT
- Complete field experience and document the experience in a portfolio specific to the student's area of study
- Develop a comprehensive portfolio of work based on the student's field experience of a topic that is related to the student's are of focus
- Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent

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## **STEM Honors Diploma**

- Four units of English
- Five units of mathematics through Algebra II
- Five units of science that include two advance sciences
- Three units of social studies
- Three units of one World Language, OR two units of two different world languages.
- One unit of fine arts
- Two electives with a focus on STEM
- Maintain a cumulative grade point average of 3.5 on a 4.0, for eight semesters
- 27 or higher on ACT OR 1280 or higher on SAT
- Complete field experience and document the experience in a portfolio specific to the student's area of focus
- Develop a comprehensive portfolio of work based on the student's field experience of a topic that is related to the student's are of focus

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## **Arts Honors Diploma-**

- Four units of English
- Four units of mathematics through Algebra II
- Three units of science that includes one advance science
- Three units of social studies
- Three units of one foreign language OR two units of two foreign languages
- Six units of fine arts
- Maintain a cumulative grade point average of 3.5 on a 4.0, for eight semesters
- 27 or higher on ACT OR 1280 or higher on SAT
- Complete field experience and document the experience in a portfolio specific to the student's area of focus
- Develop a comprehensive portfolio of work based on the student's field experience of a topic that is related to the student's are of focus

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## **IB Honors Diploma**

- Four units of English
- Four units of mathematics through Algebra II
- Four units of science, including: biology, chemistry and at least one additional advanced science
- Four units of social studies
- Four units of World Languages, with at least two units of each of two world languages studied
- One unit of fine arts
- Maintain a cumulative grade point average of 3.5 on a 4.0, for eight semesters
- 27 or higher on ACT OR 1280 or higher on SAT
- Complete field experience and document the experience in a portfolio specific to the student's area of focus
- Develop a comprehensive portfolio of work based on the student's field experience of a topic that is related to the student's are of focus

## ELIGIBILITY REQUIREMENTS FOR EXTRACURRICULAR ACTIVITIES

1. Students need to meet any special eligibility requirements for the activity they choose.
2. Students must pass five (5) units of credit or the equivalent, per nine weeks, in order to participate.
3. Students may not fail more than one (1) course per nine weeks. Anytime a student fails more than one course, required or not, he/she is ineligible for the entire next nine week grading period.
4. Students must pass five units for the year to be eligible for the first nine-week period during the following school year.
5. Students must have maintained at least a 1.5 GPA during the preceding nine-weeks.
6. When a student is ineligible, he/she may not use study hall time for anything except study, may not go on any field trip that is not required for a class, and may not participate in any activities not directly associated with academic pursuits.

### College Sports (NCAA) Eligibility

Students who are considering college athletics should be aware that the rules are changing.

Division 1 schools (**NEW**) now require a 2.30 core course GPA with a qualifying ACT score of 75. (Total of English, Math Reading and Science). This is in addition to the 16 core courses required by the NCAA.

Division 2 requires that all students complete the 16 core courses identified by the NCAA. (GPA changing from 2.0 to 2.2 in 2018)

For course requirements and guidelines go to [www.eligibilitycenter.org](http://www.eligibilitycenter.org)

### --COLLEGE CREDIT PLUS-----

Students at Liberty Center High School have the ability to take college courses while still in high school. The program that allow students to take college courses at Liberty Center is called the College Credit Plus (CCP). CCP college courses can be taken at a college campus, on line and in some cases at the Liberty Center high school campus with a Liberty Center faculty member facilitating the course.

Any student in grades 7-12 can take CCP college courses with the following stipulations:

- ✓ The ACT benchmark scores to qualify are English: 19; Math: 22; Reading 21.
- ✓ Some Liberty Center faculty will remain adjunct faculty at Northwest State and Owens Community Colleges and will be able to conduct college coursework at Liberty Center High School.
- ✓ There will be no charge to parents for tuition so long as a student passes a course.
- ✓ Students who qualify may also take courses online or on college campuses.
- ✓ Students **as young as 6<sup>th</sup> grade** may take the ACT to attempt to earn qualifying scores to take college coursework in 2015-2016. The ACT is recognized by all colleges and universities.
- ✓ Students who are unable to achieve a qualifying score on the ACT, may take the COMPASS test at a community college to qualify for community college coursework.
- ✓ Public Colleges are required to participate in the program, Private Colleges are not required to participate and those who do may need to make students responsible for some or all of tuition costs.

### --CREDIT RECOVERY PROGRAM-----

Students who fail required classes have traditionally needed to go to summer school or take correspondence classes to make up the lost credit. The cost of these programs was the responsibility of the student and their parents. LCHS students now have the opportunity to make up lost credits without cost, using two online programs, IQity and A+. These courses are scheduled through the LCHS counseling department, and allow students to make up lost credits at their own pace, and at any time. LCHS is currently keeping one computer lab open several afternoons each week to allow students to work on credit recovery courses after school. Additionally, because the programs are online, students can access and work on these courses anywhere there is internet access, including during the summer. The IQity and A+ classes are set up and monitored by LCHS staff, so students will be able to contact them about questions or problems that they may encounter along the way. Students will receive letter grades for these classes, exactly as they do in the regular classroom setting. For more information about the LCHS credit recovery program, contact the HS counseling office.

# COURSE DESCRIPTIONS (2018-2019)

## --ENGLISH DEPARTMENT-----

- **ENGLISH I – 31-100 Full year One credit Gr. 9 Required**

English I reviews and expands on the basic fundamentals of writing and studies the various literary types. Paragraph development and the introduction to the writing of longer papers are emphasized. Mechanics, usage, grammar, parts of speech, and sentence development are reviewed and further developed. Literature study includes units on the short story, novel, poetry, and drama. The drama unit includes an introduction to William Shakespeare and Romeo and Juliet. Other major works that are read are The Giver, and The Odyssey. Emphasis is placed on understanding literary terminology and techniques in all literature units.
- **ENGLISH I COLLEGE PREP 31-103 Full Year One Credit Grade 9 Required**

This may be chosen as an alternative to regular English I. This course will cover all of the material described in English I, but will include a heavier emphasis on writing to prepare students for a Four Year College.
- **ENGLISH II – 31-105 Full year One credit Gr. 10 Pre-requisite: English I**

The English II class, taken most often at the sophomore level, combines composition, literature, vocabulary, mechanics, usage, and grammar skills. Literature studies include: the short story as a literary genre, the autobiographical novel Night, which is told from the point of view of a Holocaust survivor; and John Steinbeck's novel Of Mice and Men. All of these units look at the historical context of the text, as well as the development of plot and character. Drama is studied through the reading of Julius Caesar and a brief look at William Shakespeare's life. Composition is taught through essays written about the literature, as well as units on persuasion, comparison/contrast, and the narrative form. Exercises to prepare students for the OGT reading and writing are also implemented.
- **ENGLISH II COLLEGE PREP- 31-107 Full Year One Credit Grade 10 Pre-requisite: English I**

This may be chosen as an alternative to regular English II. This course will cover all of the material covered by English II (above), but will also provide an intensive focus on writing to prepare students for College Credit Plus as well as courses at a Four Year College.
- **ENGLISH III – 31-110 Full year One credit Gr. 11 Pre-requisite: English II**

English III is an exploration of common themes in American Literature. Themes studied will include The American Dream, Family Issues, Justice, and Nature, among others. Novels that will be read include: Into the Wild, which details the struggles between individuality and societal pressures; Fahrenheit 451, which takes a look at a society without books and knowledge; and The Great Gatsby, where the evaluation of social class, narrative point-of-view, and aspirations will be highlighted. Arthur Miller's plays, The Crucible and Death of a Salesman will be compared and contrasted. The conventions of writing about literature and problem-based writing will be emphasized. Students will also write a career research paper in which the discussions about resumes, salaries, and career progression will take place..
- **ENGLISH IV – 31-115 Full year One credit Gr. 12 Pre-requisite: English III**

English IV focuses on literature and its direct relationship with historical and social issues. Emphasis will be placed on literary analysis, writing, and upper-level critical thinking. Research skills and MLA documentation will also be emphasized. In addition to papers, grades will be taken on MUG (mechanics-usage-grammar) quizzes, vocabulary assignments, independent reading projects, and homework.
- **SENIOR COMPOSITION I and II– 31-120 Full year Two credits Gr. 12 Teacher Placement Required College Credit Plus**

Senior Composition is an expository composition course emphasizing the expectations of college-level writing, including thesis development, support, and coherence. Students will gain experience using a variety of rhetorical modes. In addition to a number of full-length essays, two short documented papers, based on research materials and using parenthetical references, are required. Students must meet the admittance requirements of Northwest State Community College to take the class, and students successfully completing the class will be given credit for English 111 and 112 through Owens Community College.

- **SPEECH – 31-145 Semester Gr. 12 1/2 credit Pre-requisite: English I, II, III**  
The purpose of speech is to develop the student's public speaking skills. Topics will include: Recognition of speaking queues as well as strengths and weaknesses of a formal presentation. Students will develop and organize oral presentations using formal presentations of material. Students will learn to research facts, and argue for and against opinions.
- **JOURNALISM – 31-140 – (TIGER TALES)**  
**Full year One credit Gr. 11 – 12 Pre-requisite: teacher placement**  
The Journalism class will cover basic principles of journalism. Topics covered in class will include writing in a journalistic style, layout, research, interview skills, news photography skills, and newsgathering. These skills, along with the ability to work with a deadline will be put to use with the publication of Tiger Tales. Tiger Tales, the high school newspaper, is printed to provide information and entertainment for Liberty Center High School students and the Liberty Center community.
- **PRACTICAL COMPOSITION – 31-150 – (TIGERON)**  
**Full year One credit Gr. 11 – 12 Pre-requisite: teacher placement-Pass/Fail class**  
By designing and planning a yearbook students will know and understand its development, layout, anatomy, financial goals and responsibilities necessary for publication and delivery to the students in their school. Knowledge of digital photography, Photoshop, and computers is necessary.

## **--SCIENCE DEPARTMENT-----**

- **PHYSICAL SCIENCE – 31-210 Full year One credit Gr. 9 Required course**  
This course is designed for the college-bound student who needs a lab science. This class is a comprehensive overview of all aspects of physics, chemistry, and earth science, as well as all areas of physical science included on the Ohio State Tests.
- **BIOLOGY – 31-200 Full year One credit Gr. 10 Required course**  
This course is designed for all freshmen students. It deals with areas of biological and chemical science covered by the Ohio State Tests.
- **CHEMISTRY – 31-220 Full year One credit Gr. 11 – 12**  
**Pre-requisite: Physical Science & Algebra I (B- in Biology is recommended)**  
Chemistry is the study of material, their composition and structure, and the changes they undergo. The main areas studied are: safety, chemical organization, phases of matter, solutions, chemical reactions, and organic chemistry. It is important for anyone pursuing a medical or science-related career.
- **PHYSICS – 31-230 Full year One credit Gr. 12**  
**Pre-requisite: Teacher placement required**  
Physics uses many formulas and math to solve problems. Labs and a workbook will reinforce the concepts. Student should have an understanding of calculators, simple trigonometry, and other math skills. It is important for some medical, engineering and other science related careers
- **ANATOMY AND PHYSIOLOGY – 31-235 One credit Gr. 11-12**  
**Pre-requisite: C or better in Biology (B- in Biology is recommended)**  
This course is designed especially for students who plan to go into a medical field after high school, and will be a study of human anatomy and physiology. Structures of the body and how those structures carry on daily functions will be discussed.
- **EARTH SCIENCE- 31-240 1/2 credit Gr. 9-12 May be taken in addition to required courses.**  
**Semester or Full Year**  
This is a semester course designed to compliment the required science curriculum. Topics covered will include the rock cycle, plate tectonics, minerals, glacial geology and Earth history.

- **ENVIRONMENTAL SCIENCE – 31-245 1/2 credit Gr. 9-12 May be taken in addition to required courses. Semester**

This is a semester course that may be taken in addition to required science courses. Topics covered will include Earth's energy and natural resources, global environmental problems and issues, and the interconnected spheres of earth such as the biosphere, atmosphere and hydrosphere.

- **FORENSIC SCIENCE – 31-215 Full Year One credit Gr. 9-12 May be taken in addition to required courses.**

This course is designed to peak student interest in the forensic science field. After learning about what forensic science entails, students will practice forensic evidence processing and activities. In addition, students will solve crimes developed by the instructor and their peers using procedures learned in class.

## **--MATHEMATICS DEPARTMENT** -----

- **BASIC ALGEBRA – 31-306 Full year One credit Gr. 9 Pre-Requisite: Teacher placement**  
Algebra I at a slower pace. Students will go on to Geometry or Algebra I.

- **ALGEBRA I – 31-310 Full year One credit Gr. 9 – 12 Pre-Requisite: Teacher placement**  
Algebra I is a basic course in mathematics. Students who plan to take higher-level mathematics classes, such as Geometry, Algebra II, and Calculus should take Algebra I. Algebra is the language of higher mathematics, but is based upon understanding arithmetic properties developed in the lower grades. The Algebra I course will consist of work with formulas, use of letters replacing numbers, positive and negative numbers and graphs. The students will learn to solve equations, to factor, and to work with polynomials. We will be introduced to geometry and to numerical trigonometry.

- **ALGEBRA II – 31-315 Full year One credit Gr. 9 – 12 Pre-requisite: Teacher Placement**  
Algebra I is reviewed in depth with more theory stressed in the solution of problems. The Algebra II student will work with higher equations, imaginaries, radicals, logarithms, progressions, and other advanced topics. This course is necessary for those planning on further study in the mathematics and scientific fields. A calculator with trigonometry functions will be needed for this class.

- **HONORS ALGEBRA II -- 31-316 Full year One credit Gr. 9 – 12 Pre-req: Teacher Placement**  
Algebra I is reviewed in depth with more theory stressed in the solution of problems. The Algebra II student will work with higher equations, imaginaries, radicals, logarithms, progressions, and other advanced topics. This course is necessary for those planning on further study in the mathematics and scientific fields. A TI-83, TI-84, or TI-84 plus graphing calculator will be needed for this class. This class will be at a faster pace and more in-depth, so students will be expected to maintain a "B" average.

- **GEOMETRY – 31-320 Full year One credit Gr. 10 – 12 Pre-requisite: Alg I**  
The goal of this course is to teach logical reasoning (thinking process). To do this, geometric concepts (measurements and relationships of geometric figures) are presented and students learn to organize these ideas and gradually are led to the concept of geometric proof. Students will learn how to think logically using the properties of figures.

- **HONORS GEOMETRY – 31-321 Full Year One credit Gr. 9-10 Pre-req: Teacher Placement**  
The goal of this course is to teach logical reasoning (thinking process). To do this, geometric concepts (measurements and relationships of geometric figures) are presented and students learn to organize these ideas and gradually are led to the concept of geometric proof. Students will learn how to think logically using the properties of figures. This class will be at a faster pace and more in-depth, so students will be expected to maintain a "B" average to remain in this class.

- **PRE CALCULUS – 31-325 Full year One credit Gr. 11 – 12 Pre-requisite: Algebra II**  
In this course students will review and extend ideas learned earlier about functions, statistics, and trigonometry. This will be accomplished with the aid of the computer, for this technology has changed the ways in which people deal with the mathematical ideas in this course. If you plan on going to college you will need the mathematics of this course.

- **STATISTICS AND FUNCTIONS Full Year One Credit Grade 12 Pre-requisite: Pre-Calculus**  
This is a continuation of material covered in Pre-calculus. This course may be an option for students who need math credit subsequent to Pre-calculus but are unable to achieve a qualifying score on the ACT to register for college level math courses.
- **ADV. COLLEGE ALGEBRA/TRIGOMETRY 31-327 Full year One credit Gr. 11-12**  
**College Credit Plus Pre-requisite: Algebra II**  
Real number system, polynomials, rational expressions, exponents and radicals, scientific notation, approximate numbers and rounding, linear and quadratic equations, formula manipulation, graphing variation, exponential and logarithmic functions, geometry, fractions and factoring, the metric system and basic trigonometry are studied.
- **CALCULUS – 31-330 Full year Two credits Gr. 12 Pre-requisite: Pre-Calculus**  
**College Credit Plus**  
If you study further in college any area in which mathematics is encountered, it is likely you will need the mathematics presented in this course. Discrete mathematics is fundamental in computer science, and calculus is fundamental to engineering and the physical sciences. Both areas are used in business and in the social sciences. This is a College Credit Plus class and counts for both high school and college credit. Students must meet ACT or COMPASS test score requirements to be eligible for the class.
- **STATISTICS – 31-335 Full year Two credits Gr. 12 Pre-requisite: Pre-Calculus**  
**College Credit Plus**  
This class will cover descriptive statistics for one and two variables, sample spaces and probability rules, discrete and continuous probability models, use of simulation to compute probabilities. This is a College Credit Plus class and counts for both high school and college credit. Students must meet ACT or COMPASS test score requirements to be eligible for the class.

## **--FOREIGN LANGUAGE DEPARTMENT--**

- **SPANISH I – 31-400 Full year One credit Gr. 9 – 12 Pre-requisite: C or better in English 8**  
Level I is an introduction to Spanish focusing on speaking, listening, reading & writing skills. Students will develop an understanding of the people & culture of Spanish-speaking countries. Vocabulary is related to school, family, and home. Additionally, students will learn about the major holidays and geographical features of the countries being studied as well as appropriate etiquette in a variety of settings.
- **SPANISH II – 31-405 Full Year One credit Gr. 10 – 12 Pre-requisite: Spanish I**  
Level II is an extension of Level I, continuing to develop speaking, reading & writing skills. Students will participate in conversations dealing with daily activities and personal interests. Additionally, students will become familiar with different aspects of the culture and appropriately use of the language.
- **SPANISH III – 31-410 Full year 1 credit Gr. 11 and 12 Pre-requisite: Spanish II & TeachPlacement**  
Level III provides instruction enabling students to understand and appreciate other cultures. Students will continue to build grammar skills; read for comprehension from a variety of authentic materials; write paraphrases, summaries, and brief compositions; and use the foreign language to participate appropriately in a Spanish-speaking culture.
- **LATINO CULTURE Full year One credit Gr. 10-12 Pre-requisite: Spanish I**  
Course description in progress. Talk with the Spanish Department regarding this new course for the 2018-2019 academic year.

## **-- BUSINESS & TECHNOLOGY DEPARTMENT-----**

- **MICROSOFT APPLICATIONS – 31-510 Semester Course 1/2 credit**  
This course will focus on learning Microsoft programs including Word, Excel and Powerpoint
- **KEYBOARDING – 31-515 Semester Course 1/2 credit**  
Students will learn how to type with proper technique and posture with a goal of increasing speed and accuracy.
- **CONSUMER ECONOMICS – 31-521 Semester Course 1/2 credit Gr. 11-12 Required course**  
This required senior course is one semester. An overview of economics will be presented along with basic financial life skills. We will be discussing budgeting, checking accounts, savings accounts, using credit cards, and paying taxes. We will discuss how to apply for loans and how to invest money.

## **COLLEGE CREDIT PLUS COURSES—MAY REQUIRE QUALIFYING TEST SCORES FOR OWENS ADMISSION**

- **CONTEMPORARY BUSINESS-31-530 Semester Course 1 HS/3 College Credits College Credit Plus**  
This course is a basic introduction to the Owens Community College Business Program. Basic business concepts will be defined and serve as a foundation for sequential courses.
- **COMPUTER CONCEPTS – 31-535 Semester Course 1 HS/ 3 College Credits College Credit Plus**  
Designed to provide a basic understanding of computer concepts and applications and their use in business settings. Covers word processing, spreadsheets, file organization and databases, presentation graphics, and internet concepts. Includes essential concepts of computers, software, multimedia, computer files and storage, and computer architecture. Hands-on experience will be provided on networked computers in the Windows environment using the Microsoft Office Suite including Word, Excel, Assess, and PowerPoint.
- **COLLEGE & CAREER PROFESSIONAL – 31-575 Semester Course 1 HS/ 3 College credits College Credit Plus**  
Focuses on attitudes, skills and behaviors that will help students to easily and appropriately assimilate into a business environment. Will be accomplished by providing broad-based knowledge to students concerning what employers expect in the way of attitude, etiquette, appearance, work ethic and social behavior from their employees.

## **--SOCIAL STUDIES DEPARTMENT-----**

- **AMERICAN STUDIES – 31-600 Full year One credit Gr. 10 Required course**  
The topics covered in this course are significant events that took place in American history from 1865 to the present. Each quarter the students will have to complete a major project dealing with a certain time period along with tests, quizzes and homework. American History is a required class in all Ohio high schools.
- **GLOBAL STUDIES – 31-605 Full year One credit Gr. 9 Required course**  
World Studies from 1750 to the Present: Age of Revolution through the 20<sup>th</sup> Century. Students will study historic ears, the role of geographic settings, cultural perspectives, economic systems and various forms of government. Also, students will gain a deeper understanding of the role of citizens and continue to develop their research skills.
- **DEMOCRACY – 31-620 – Full Year One credit Gr. 12 Required course**  
The course is the study of government in the United States. Students will look at the ways in which government in the U. S. is organized, the ways in which it is controlled by the people, and the various responsibilities and obligations of the government. Democracy is required for graduation from an Ohio high school.



- **AMERICAN GOVERNMENT – 31-621 Full Year 1 credit Gr. 12 Elective**  
**College Credit Plus**

A study of power as it occurs in the formation and implementation of public policy in the United States, based on the recognition that politics is an activity that creates the “realm of we” and molds personal identities. Special attention is given to concepts of politics, justice, and democracy as a basis for examining our responsibility in the public realm. Topics covered are media, interest groups, political parties and campaigns, federal government structure and process, effects of power in domestic and foreign affairs, and making democracy. This is a dual enrollment class and counts for both high school and college credit. Students must meet ACT or COMPASS test score requirements to be eligible for the class.

- **AMERICAN CONFLICTS – 31-635 –Semester or Full year 1/2 credit Gr. 11-12 Elective**

This course will discuss the history of American conflicts, beginning with the Revolutionary War, and continuing up through the current conflicts in the Middle East. We will discuss the people who played important roles in these conflicts, new military technologies introduced, and finally, examine how these conflicts influenced American culture.

## **--AGRICULTURE DEPARTMENT-----**

**NOTE FOR ALL AGRICULTURAL COURSES:** Personal development is a very important part of this program through FFA. FFA is a youth organization that promotes "Premier Leadership, Personal Growth, and Career Success" through agricultural education. FFA is 20 percent of this agriculture program. The Liberty Center FFA Chapter has annual dues and requires students to become involved in the many activities of our Chapter including our annual fruit sale. FFA and a Supervised Agricultural Project is required for all agricultural courses.

- **AGRICULTURE, FOOD AND NATURAL RESOURCES – 31-760 Full year**  
**1 1/4 credit Gr. 8-10**

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

**NOTE:** Ag-Science for science credit option. Students who take Agricultural, Food and Natural Resources, Animal and Plant and Science, along with Food Science Technology may receive 1 science credit, thus making it possible for them to fulfill their 3-credit science requirement by the end of their sophomore year. This does NOT exempt them from taking the required classes, which are Biology and Physical Science, but is in addition to those classes. Please be aware that some universities do not accept Agricultural Science courses as a science credit. You should consult your counselor for more specific information.

- **ANIMAL AND PLANT SCIENCE – 31-761 Full year 1 1/4 credit Gr. 9–11**

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

**NOTE:** Ag-Science for science credit option. Students who take Agricultural, Food and Natural Resources, Animal and Plant and Science, along with Food Science Technology may receive 1 science credit, thus making it possible for them to fulfill their 3-credit science requirement by the end of their sophomore year. This does NOT exempt them from taking the required classes, which are Biology and Physical Science, but is in addition to those classes. Please be aware that some universities do not accept Agricultural Science courses as a science credit. You should consult your counselor for more specific information.

- **BUSINESS MANAGEMENT OF AGRICULTURAL AND ENVIRONMENTAL SYSTEMS – 31-780**  
Full year 1 1/4 credit Gr. 11-12

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

- **AGRICULTURAL AND ENVIRONMENTAL CAPSTONE – 31-785** Full Year One credit Gr. 12  
Pre-requisite: Instructor Permission, Min. GPA of 2.0, and have an agricultural related job

As a part of the agriculture program, qualifying students may receive high school credit for career-related employment. Students must be a senior and have a minimum cumulative GPA of 2.0, be able to work or volunteer at least 10 hours per week, and be taking Global Economics or Agricultural and Environmental Business Management at LCHS. The job must fall under the AO course of study program area as stated by the Ohio Department of Education. In short, the job will have to be agriculturally related. The agricultural field is enormous, so ask the instructor if your job is agriculturally related. Students will receive orientation, and must have permission of the instructor and administration to participate in this program. **MUST SIGN A CONTRACT to participate.** See Mr. Readshaw for a copy.

- **SCIENCE TECHNOLOGY OF FOOD 31-775** Full year One credit Gr. 10-12

Students will examine the research, marketing, processing and packaging techniques applied to the development of food products. Learners will examine nutrient content and their chemical makeup, while applying principles of chemistry to the development of food products. They will examine and implement food safety, sanitation, and quality assurance protocols. Government regulations and food legislation will be examined and the implications to food science and technology will be identified.

NOTE: Ag-Science for science credit option. Students who take Agricultural, Food and Natural Resources, Animal and Plant and Science, along with Food Science Technology may receive 1 science credit, thus making it possible for them to fulfill their 3-credit science requirement by the end of their sophomore year. This does NOT exempt them from taking the required classes, which are Biology and Physical Science, but is in addition to those classes. Please be aware that some universities do not accept Agricultural Science courses as a science credit. You should consult your counselor for more specific information.

- **MECHANICAL PRINCIPLES – 31-770** Full Year One credit Gr. 9 – 10

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.

- **AGRICULTURAL AND INDUSTRIAL POWER TECHNOLOGY – 31-765** Full year One credit  
Gr. 10 – 11

In this first course, students will learn the breadth of the Agricultural and Industrial Power Technology pathway. Students will learn the principles of power technology equipment systems which will include electronic and electrical systems, engines and fuels, hydraulic systems and power train components. Additionally, students will learn to safely operate and maintain machinery and equipment along with the principles of welding and metal fabrication.

- **OUTDOOR POWER – 31-795 Full year One credit Gr. 11 – 12**

Students will perform technical skills needed to maintain, diagnose and repair outdoor power equipment. Students will learn the theory of power and examine the aspects of repairing various engines, drive trains, and ancillary systems that make up modern small engine powered equipment. In addition, students will develop troubleshooting skills for 2- and 4-stroke engines, electrical and fuel systems. Throughout the course, site and personal safety procedures along with business principles will be emphasized.

## **--PHYSICAL EDUCATION, HEALTH, AND WELLNESS-----**

- **PHYSICAL EDUCATION – 31-805 Semester 1/4 credit Gr. 9 and 10 Required course**

Co-educational physical education is required of all 9th and 10th grade students with the intent of developing physical fitness and good health. Individual and team sports as well as lifetime activities will be covered. Students will be required to master the fundamentals of many activities, display a knowledge of the rules, and demonstrate good sportsmanship. Showers are required of all students. Athletic supporters are required of male students and all students are required to provide their own clean towels, combination locks, and proper physical education attire.

- **HEALTH – 31-800 Semester 1/2 credit Gr. 9 Required course**

This is a state of Ohio required course for all freshmen. This course is designed to help the student gain an intelligent understanding of the human body and mind in order to maintain good health habits.

## **--FINE ARTS DEPARTMENT-----**

- **HIGH SCHOOL BAND – 31-900 Full year One credit Gr. 9–12**

The high school band program is divided into two sections (Marching Band and Wind Symphony) and is a full year course.

The Tiger Marching Band of LCHS is one of the most visible and well-known music programs that LCHS has to offer. The marching band serves to promote strong musicianship through participation in the marching arts as well as build school spirit and community pride through performances at football games, parades, and festivals throughout Ohio. Summer rehearsals and band camp as well as successful completion of the middle school band program are required for membership unless otherwise cleared by the director. The band rehearses daily during the school day as well as twice after school each week. Students attending Four County as well as fall athletes are encouraged and welcomed to participate—the conflicts are very minor. Attendance, positive attitude, musical aptitude, and marching prowess are required from each member in order to perform with the marching band each week. Proper class materials including a working instrument, all music, and drill charts are required daily. The LCHS Marching Band will perform at all football games as well as parades and other events as deemed appropriate by the director. The LCHS Wind Symphony is the premiere band at Liberty Center and is open to all students grades 9-12 upon successful completion of the middle school band program and the marching band segment of this full year course. The band demands advanced musicianship and performance skill as well as a strong work ethic, desire to improve, and a positive attitude. Students in the Wind Symphony will be exposed to a variety of musical styles, genres, and periods while honing skills and character traits necessary for working together in a team environment. Proper class materials including a working instrument (rent or own) and all sheet music are required daily. The Wind Symphony will perform at all scheduled band concerts as well as OMEA Large Group Adjudicated Event. Members of the Wind Symphony are encouraged to pursue private lessons as well as OMEA Solo and Ensemble Contest.

- **MUSIC APPRECIATION --31-904 Semester 1/2 credit Gr. 9–12**

Designed for students of all abilities, Music Appreciation covers the basic concepts of music theory and music history with special emphasis on the popular music of today. This course does not require any knowledge of music and is suitable for students who have no musical experience.

- **A CAPELLA CHOIR –31-913 Full year One credit Gr. 9 – 12 Pre-requisite: Audition required**

Any qualified freshman, sophomore, junior or senior may be a member of Chamber choir. Students must be capable of matching pitch and singing his/her own part within a group of students. Chamber choir presents performances each semester and participates in district and state competitions. Concert participation is required to pass this course. Enrollment in this course will be for the entire school year.

- **MIXED CHOIR – 31-911 Full year One credit Gr. 9 - 12 Pre-requisite: Teacher placement**  
 Any qualified freshman, sophomore, junior or senior student may be a member of mixed choir. Each student must be capable of matching pitch. Mixed Choir presents performances each semester and may participate in district and state competitions. Concert participation is required to pass this course. Enrollment in this course will be for the entire school year.
- **ART 1 Pre-Requisite-none One Credit-year long grades 9-12**  
 Art 1 is an elective class open to any high school student. Students will focus on the elements and principles and how they apply to works of art. Students will develop essential skills required for art criticism. Student Choice is an integral part of the curriculum as well as learning about master artists and the fundamentals encompassing masterpieces. Art 1 is a hands-on exploration in many art media/mediums. A digital portfolio will be created at the end of the year to showcase the year's growth as well as an Art Show in May. Student works will be on display at the Liberty Center Public Library throughout the year as well. Participation in area art shows encouraged, but not required.
- **Art 2 Pre-Requisite-Art 1 One Credit-year long grades 9-12**  
 Art 2 or Intermediate Art will be a spiraling curriculum from Art 1 where students will enhance and broaden their fundamental art producing skills while starting to develop their own style. Again Choice Based Learning becomes a larger part as student skill level increases. A digital portfolio will be created at the end of the year to showcase the year's growth as well as an Art Show in May. Student works will be on display at the Liberty Center Public Library throughout the year as well. Participation in area art shows encouraged, but not required. If you are an 8<sup>th</sup> grader taking Art1, you must have teacher signature to advance to HS level Art 2.
- **Art 3 & 4 Advanced Art One Credit-year long grades 11-12**  
 Pre-Requisite-Art 2 with an A/B grade in Art 2 and/or teacher placement.  
 Advanced Art is intended for students looking to continue to progress as an artist, particularly those interested in art education or professional art. Individual portfolio development becomes a focus. Complex themes, subject matter and mediums will be manipulated. Choice Based Learning is the focus of the curriculum where students produce works independently and self-directed. A digital portfolio will be created at the end of the year to showcase the year's growth as well as an Art Show in May. Student works will be on display at the Liberty Center Public Library throughout the year as well. Participation in area art shows encouraged, but not required.
- **ART HISTORY – 31-930 Semester 1/2 credit Gr. 9-12**  
 Art History is a semester long course designed to give students the opportunity to explore, appreciate, and acquire knowledge of art history from ancient times to the present. Through readings, research, videos and slides, students will view significant artworks from around the world. Students will learn to examine and critically analyze diverse cultures and understand their contributions to the arts. Students are to approach this class in a self-disciplined manner, including preparation for class, note taking, essay writing, art projects, and class participation.
- **GRAPHIC DESIGN – 916 Semester ½ credit Gr. 9-12**  
 Graphic Design is a semester long class that teaches art and technology. In this class students will use design as a creative process in communication. Students will learn the basic concepts of graphic design such as composition and layout, color theory, perspective, and typography. Students will explore various methods in Adobe Photoshop to create images with visual representation of ideas and messages.
- **DIGITAL MEDIA – 31-935 Semester 1/2 credit Gr. 9-12 Pre-requisite: Art I**  
 Digital Media is a semester long class that teaches an introduction to art and technology. In this class students will use a variety of computer art programs to develop artworks that reflect problem solving and critical thinking. Art historical movements will also be studied as they relate to student projects.

## **--SERVICE LEARNING-----**

- **SERVICE LEARNING – 31-945 Full year or Semester Course ½ - 1 credit Gr. 11-12**  
**Pre-requisite: Must meet standards below**

Students who would like to be service learning teacher/office aides must have a minimum cumulative GPA of 3.0, have no credit deficiencies, and a clean discipline record for the past school year. They must also meet the school eligibility standards for the current grading period. Students will be assigned to staff members after the regular scheduling process is completed. All service-learning students must turn in a service-learning contract that must be signed by both the student and the staff member.

## **--DIGITAL ACADEMY-----**

High school students are also offered several courses using online platforms through our digital academy. Students can choose to fill in their schedule with elective courses not otherwise offered in the district. It is recommended that students select no more than one online course. These online courses will be completed in computer lab 102 during the regular school day. An application process will be required for the student to take more than one online courses and will require a meeting with the Digital Academy Director as well as the Principal. When selecting an online option on your course registration, you will be expected to attend an informational meeting in the spring to learn if this option is right for you.

The following digital Academy Courses will be available in 2016-2017.

### **BUSINESS TRACK**

Business Information Systems  
Personal & Family Finance  
Sports & Entertainment  
Marketing

### **MANAGEMENT TRACK**

Hospitality & Tourism  
Introduction to Manufacturing

### **CRIMINAL JUSTICE, SAFETY, LAW TRACKS**

Criminology

### **MEDICAL FIELDS & HEALTH SCIENCES TRACKS**

Health Sciences I & II  
Medical Law and Ethics  
Medical Terminology \* *This course highly recommended for students considering medical careers.*  
Veterinary Science

### **HUMAN SERVICES & EDUCATION TRACKS**

Introduction to Early Childhood Education (Pre-Req. Jr./Sr.)  
Personal Psychology I & II  
Sociology I & II  
Peer Counseling

### **COMPUTER SCIENCES/WEB 2.0 TRACK**

Business Information Systems  
Computer Programming I & II  
Introduction to Social Media  
Introduction to Computer Applications

### **ARTS/HUMANITIES/GENERAL STUDIES**

Anthropology I & II  
Digital Photography I & II  
Mythology & Folklore  
Theater, Cinema & Film Production  
World Religions

### **LIFE SKILLS**

Consumer Math A & B

**--FOUR COUNTY CAREER CENTER GENERAL INFORMATION-----**

Liberty Center High School is one of twenty-two different high schools in the Four County area (Fulton, Defiance, Henry and Williams) which is served by the Four-County Career Center (FCC). Students enrolled at FCC are still members of their respective home schools. Students who complete the program at FCC will graduate and receive diplomas from their home school. In addition, they will receive a certificate from FCC indicating their successful completion of a program. Four County offers a unique opportunity for those students who may be interested in a program at FCC which may not be offered at the home school.

- **Objectives:**

The primary objective of FCC is to train the student for a semi-skilled job; the preparation is not necessarily technical or college oriented. Four County essentially offers an opportunity whereby vocational training not offered at the home school might be available to each student. NOTE: Grade point average and ATTENDANCE RECORDS are now examined as part of the admissions consideration process.

- **Procedures:**

- Information about Four County is handled by counselors at the home school. A sophomore class orientation, individual counseling, and visitations to Four County are covered.
- Sophomore students submit a formal application by early February. This application expresses the student's interest in two specific programs.
- Personnel at FCC select applicants for each program. Students are notified about acceptance or non-acceptance by late March.

- **General Guidelines to attend Four County:**

A student must have the following 9 credits prior to attending Four-County:

English (9 and 10)	2 credits	Science	2 credit
Health	1/2 credit	Math	2 credits
Physical Education	1/2 credit	Social Studies	2 credits

- **PROGRAMS CURRENTLY OFFERED AT THE FOUR COUNTY CAREER CTR.**

Accounting and Business Management  
Agricultural Diesel Mechanics  
Auto Collision Repair  
Automotive Technologies  
Building Trades/Carpentry  
Chef Training  
Commercial Art  
Computer Design/3D Modeling  
Computer Networking & Repair (CISCO)  
Cosmetology  
Diesel Mechanics  
Early Childhood Education  
Electrical  
Fire & Rescue  
Floriculture  
Graphic Arts  
Health Careers

Hospitality Services  
HVAC and Plumbing  
Industrial Services  
Interior Design  
Landscape & Greenhouse Technologies  
Law Enforcement and Security Tactics  
Medical Office Technologies  
Powersport Engine Technology  
Precision Machining  
Pre-Engineering  
Software Design and Web Development  
Sports Fitness and Exercise Science  
Veterinarian Assistant  
Welding Fabrication

## **--GUIDANCE AND COUNSELING DEPARTMENT-----**

- **COUNSELING SERVICES AVAILABLE**

Depending on your needs, your LCHS counselor can help you in a variety of areas, such as:

- Individual Counseling
- Conflict Resolution
- Scheduling of classes – also Online Courses
- Career Counseling and Information, Individual meetings with students and parents
- College Applications and Materials
- Scholarship Information
- Financial Aid Forms
- Contact with Military Recruiters
- Drug and Alcohol Prevention Counseling
- ACT/SAT Test Dates and Registration Packets
- OGT Test Dates and Preparation Materials
- Review of High School Credits
- Four County Career Center Opportunities
- Post-Secondary/Dual Enrollment Options
- Service Learning opportunities

***Initiatives are sponsored by the guidance department annually to prevent suicide, promote healthy dating relationships, prevent bullying, promote safe driving practices and prevent substance abuse.***

