



P = PURPOSE
R = RESONSIBILITY
I = INTEGRITY
D = DEDICATION
E = EMPATHY

*Relentlessly pursuing education excellence for
Every Child, Every Day*

Tables of Contents

| | | | | |
|--|----|--|--|--|
| Advanced Placement (AP) | 7 | | | |
| Classification of Students | 6 | | | |
| Core Course Requirements & Sequencing | 3 | | | |
| Course Offerings | 10 | | | |
| • Art | 10 | | | |
| • Business Education | 28 | | | |
| • Computer Science & Design | 12 | | | |
| • English | 13 | | | |
| • Family & Consumer Science | 29 | | | |
| • Foreign Language | 26 | | | |
| • Health | 18 | | | |
| • Health Science | 32 | | | |
| • Industrial Technology | 33 | | | |
| • Mathematics | 19 | | | |
| • Miscellaneous | 42 | | | |
| • Music | 40 | | | |
| • Physical Education | 39 | | | |
| • Science | 22 | | | |
| • Social Studies | 24 | | | |
| • Courses Offered in Other Districts | 44 | | | |
| Dual Credit Guidelines | 7 | | | |
| Early Release / Late Start | 8 | | | |
| Edgenuity Course Guidelines | 45 | | | |
| Graduation Requirements | 3 | | | |
| New Course Offerings 21-22 School Year | 46 | | | |
| Post-Secondary Planning | 8 | | | |
| Senior Year Plus Program | 6 | | | |

GRADUATION REQUIREMENTS

The following is a guide for students and parents to use as the students decide on the courses for the 2021-2022 registration. This handbook explains and identifies course requirements by grade-level as well as by electives available. Levels, except math, structure each course sequence. Students must successfully complete each level sequentially unless an exception is noted.

Please read through this guide before you begin selecting courses. It is important for you to understand the options available to you now as well as in future grade-levels.

Students who graduate from Logan-Magnolia must earn 50 Credits for graduation. (31 Core & 19 Elective Courses)

- **8 semesters of English**
Students completing English 9 in grade 8 will be required to complete four years of English in high school. The credit earned in junior high will count as an elective.
- **6 semesters of Social Studies**
- **6 semesters of Science**
- **8 semesters of Mathematics**
Students completing Algebra I in grade 8 will be required to complete four years of math in high school. The credit earned in junior high will count as an elective
- **Health**
- **Senior Seminar**
- **Freshman Seminar**

The description below breaks down each course sequence. Students must complete the levels sequentially unless otherwise approved by the instructor.

CORE COURSE REQUIREMENTS & SEQUENCE

Science Sequence:

Level 1 Course

- Physical Science: Required to graduate

Must complete a Level 1 course to advance to a Level 2 course.

Level 2 Course

- Biology: Required to graduate
- Earth Science (1 semester of Physical Science needed)

Must complete a Level 2 course to advance to a Level 3 course.

Level 3 Courses

- Ag Science

Must complete a Level 3 course to advance to a Level 4 course; or earn a C or above in a Level 2 course and gain instructor approval to advance to a Level 4 course.

Level 4

- Anatomy and Physiology
- Chemistry

Level 5 Courses

- Senior Biology
- Physics

Must complete a level 4 course to proceed to a level 5 course.

****To advance from a level 3 course to a level 5 course – Instructor approval is mandatory.**

Social Studies Sequence:

Level 1 Courses

- American History: Required to graduate

Students must complete a Level 1 course to advance to a Level 2 course

Level 2 Courses

- World History: Required to graduate

Must complete a Level 2 course to advance to a Level 3 course.

Level 3 Courses (Electives)

- Sociology
- Psychology
- Contemporary World Issues
- World Geography

****Instructor approval is mandatory if a student wants to take a level 2 course simultaneously with a level 3 course.**

Level 4 Courses

- American Government: Required to graduate
- Special Topics in Sociology
- Online College Courses

Level 5 Courses:

- Special Topics in American Government

Mathematics Sequence:

Level 1 Courses:

- Algebra 1

Level 2 Courses:

- Geometry
- Geometry Concepts

****To enroll in Geometry the student MUST successfully complete Algebra 1 with a grade of C- or better or with instructor approval**

Level 3 Courses:

- Algebra 2
- Tech Math

****Must successfully complete Geometry or Geometry Concepts with a grade of C- or better or instructor approval**

(Department approval for a grade of B or higher in Algebra 1)

Level 4:

- Trigonometry

****Must successfully complete Algebra II with a grade of C- or better.**

- College Transition Mathematics
- Probability and Statistics

****Must pass Algebra II.**

Level 5:

- Pre Calculus

****Must successfully complete Trigonometry with a grade of C- or better.**

Level 6:

- AP Calculus

****Must successfully complete Trigonometry with a grade of C- or better.**

English/Language Arts Sequence

Level 1 Courses

- English 9 **Required to graduate**
- Independent English Language Arts
- Media Storytelling
- Video Production

Must complete English 9 to advance to a level 2 course

Level 2 Courses

- English 10 **Required to graduate**
- Speech: **Required to graduate**
- Real World ELA
- Media Storytelling II

Must complete English 10 to advance to a level 3 course

Level 3 Courses

- English 11 **Required to graduate**
- Media Storytelling III

Must complete Level 3 courses in order to advance to Level 4 courses

Level 4 Courses

- British Literature (Seniors only or with instructor approval)
- College Prep Writing (Must have completed first semester English 11 with a C- or better)
- Media Storytelling IV
- English Comp I/II (Must complete both semesters of English 11 with a C- or better)

CLASSIFICATION OF STUDENTS

Students at Logan-Magnolia High School shall be classified at the beginning of each school year as follows:

- Freshmen: 0-12 credits
- Sophomores: 13-25 credits
- Juniors: 26-33 credits
- Seniors: 33 or more credits

SENIOR YEAR PLUS PROGRAM

Logan-Magnolia High School offers students the opportunity to earn college credit in high school as part of the Senior Year Plus Program and an agreement with Iowa Western Community College (IWCC). The student pays \$25 per course and the district covers the cost of tuition taken through the Senior Year Plus Program. Students will receive their books free of charge but must return them upon completion of the semester. If the student wishes to earn additional college credit, they can enroll and pay for the courses independently. Registration is due by the set deadline each semester in order to enroll for the following semester.

Credit for these courses will be granted at both the high school and community college. Therefore, courses taken through this program will appear on both the student's Logan-Magnolia High School transcript and the student's Iowa Western Community College transcript. Students may elect to transfer this credit to the college or university of their choice upon high school graduation. Any request to transfer college credit must be made through the Registrar's Office at Iowa Western Community College. Students must typically earn a "C" or better in order for the credit to transfer.

Advanced Placement Courses (AP)

Advanced Placement (AP) courses are college-level courses offered by high schools. The courses, curriculum, and optional tests are provided by CollegeBoard, and must meet CollegeBoard guidelines and procedures. AP® courses are a good way for high school students to access challenging coursework and have the option to gain early credits for college. AP courses are college-level studies available to high school students, most often in their junior or senior years.

Dual Credit Guidelines

The following guidelines are set forth regarding all dual credit courses for students at Logan Magnolia Community Schools. These courses are offered through Iowa Western Community College, located in Council Bluffs, Iowa.

1. Location - Courses can be taken at the Council Bluffs campus, online, or with certified teachers approved through Iowa Western Community College.
2. Attendance - Students are expected to be in full attendance, including being in their assigned area when taking online courses.
3. Grades - The high school is not privy to receiving grades from IWCC, so progress of course work is the responsibility of the student **and** parent/guardian. Students will be required to meet with their advisor weekly to progress monitor coursework and grades for online courses. Students will be required to physically show their advisor their ROC grade report. Failure to do so will cause the student to be placed on the academic non-compliant list.
4. Cost - There is also a \$25 per class fee payable to LoMa Schools for each course taken.
5. Eligibility - Students who wish to take these courses must be proficient reading, math, and science on the ISASP test. Students must also have paid all fees from previous courses taken before they are allowed to take additional courses. Additional eligibility requirements may be placed on specific courses by the host college.
6. Registration - Students will fully and accurately complete the provided google doc to register for all dual credit courses. Students must also meet all deadlines set forth by IWCC and Logan Magnolia Schools.
7. Dropping Courses - If a student wishes to drop a course prior to the start of the course beginning they need to meet with the school counselor to complete the

drop process. If a student wishes to drop a course after the course start date the student and parent/guardian must meet with the school counselor to complete the process. The guidelines for dropping a class set forth by the school board apply to dual credit courses.

8. Books - Students are responsible for procuring their own books or other materials for each course they choose to take.
9. Schedule - Students who are first time dual credit students will be given one class hour per day to work on their class. Students who are repeat dual credit students will be allowed one class hour per day for every two dual credit courses they are taking.
10. Miscellaneous - The Logan Magnolia CSD administration will have communications with professors on an as needed basis for students who are struggling to meet academic demands of the online course.

Signatures by student and parent/guardian are required for enrollment in online courses. These signatures do not indicate agreement with the above terms, but does indicate both the student and parent/guardian are understanding of the terms, and will abide by them.

EARLY RELEASE/LATE START

Seniors who meet all of the following criteria may be eligible for early release during their senior year:

1. Parent approval indicated on an agreement contract
2. Students must have passed all of their Junior classes with at least a C- and be on track to complete graduation requirements
3. Senior is enrolled in five 1 credit classes (required to be considered a full time student) and six total classes.
4. Senior must leave the school campus at their early release time.

No credit will be awarded for early release or late start. If a senior is in violation of any of the criteria listed above, they will be required to spend their open campus periods in an academic study hall.

POST-SECONDARY PLANNING

It is important to give considerable attention to the selection of high school courses. Although students have met LMHS requirements, please be aware that requirements of some 4-year universities may be different. Listed below are Logan-Magnolia High School's requirements and those of the three state universities:

| <u>Subject</u> | <u>LMHS</u> | <u>Four Year Iowa Public Universities</u> |
|-----------------------|--------------------|--|
| English | 4 years | 4 years |
| Math | 4 years | 3-4 years (Algebra I & II, Geometry) |
| Science | 3 years | 3 years (Biology, Chemistry, Physics) |
| Social Studies | 3 years | 2-3 years |
| Foreign Language | Not required | 0-2 years |

If you are in need of any type of support for post-secondary planning please visit with your school counselor as soon as possible.

If you are interested in participating in any extracurricular activities in college please make sure to follow the guidelines of the appropriate eligibility center for either NCAA or NAIA.

COURSE OFFERINGS

ART

DRAWING I

1 Credit
Grade 9-12 Level 1 Elective

Prerequisite: None

Drawing I is a one-semester skill building class developed to reinforce the principles of Art. In this class the student will learn, in detail, methods of drawing subjects with many different tools: pencil, charcoal, pen, chalk and marker. The student will draw still life on scene and from photos and will engage in life drawing. The skills developed in Drawing I will be used over and over in more advanced Drawing classes. The overall importance of Drawing I is that it will enable students to become better drawers and will give them a strong foundation in which they can build and become more creative in the future, and is the prerequisite for all art courses.

DRAWING II

1 Credit
Grade 10-12 Level 2 Elective

Prerequisite: Complete Drawing I, with minimum C-

Drawing II is a one-semester class where students will use their knowledge of drawing to create works using the elements and principles of art. Students will use pencil, pen, chalk pastels and watercolor as their main mediums to: brainstorm ideas and refine them into workable forms of art. Students will use one to multiple types of media to create a ceiling tile. They will think creatively to make and interesting work of art. During the semester students will complete 8-9 projects.

POTTERY

1 Credit
Grade 11-12 Level 3 Elective

Prerequisite: Drawing II (C- or better) and/or Instructor Approval

Students will explore the many different types of pottery construction: coil, slab, and hump mold, pinching and wheel thrown in this one semester class. The students will also learn about the different styles of firing: oven firing with electrical elements, gas firing and firing. Students will develop knowledge of glazes and how to use them to achieve spectacular effects.

PAINTING

1 Credit
Grade 10-12 Level 2 Elective

Prerequisite: Drawing I (C- or better) and Instructor Approval

In this one-semester class acrylics, oil, and watercolor will be explored. The class will concentrate on technical approaches to painting. The use of color and the reasons for color patterns will be discussed in the classroom. Most of the class will be about painting from photos and the student's own creative ideas. Some painting will be done on site and students will leave the classroom to venture to an outside environment.

Business Art

1 Credit
Grade 10-12 Elective

Prerequisite: Passed Drawing 1 with a minimum grade of a B-
Cap: 12 students

Description: This class is designed to work toward thinking, creating, and marketing for Big Cat Industries. The class will contain subgroups - (creative thinking team, production team, marketing team). These subgroups may go on a rotation throughout the semester. We will work collaboratively with other departments to think, present, and produce products that will be sold to consumers in the area and beyond. Students will gain a better understanding of a creative process from the planning, critical thinking, and production using their ideas/concepts, (thinking "outside the box" is encouraged).

Expectations for the class:

- Be driven to create
- Think critically on establishing ideas/concepts
- Have an open mind (this class involves subjective thinking)
- Be able to work together (subgroups will brainstorm ideas/concepts based on the individual ideas/concepts, and present the ideas to another subgroup). For example: The "creative thinking team" develops an idea/concept and presents that to the "production team" all the while working together as subgroups to create the overall product.
- Be able to work independently (each student will develop an idea/concept individually, and then share their ideas with their subgroup)

If you enjoy thinking creatively and producing a visual product from an idea/concept this class would be a valuable class for you.

COMPUTER SCIENCE & DESIGN

MULTIMEDIA

1 Credit
Grade 9-12 Level 1 Elective

Prerequisite: None

This one semester course gives students the opportunity to explore different technology programs and apps and present information using that technology. Students will use iMovie to create a music video and a public service announcement. They will learn how to create web pages using Google sites. Students will learn what wikis are and create wiki pages for several purposes. Students will create specific boards on Pinterest and pin items to it. Students will use their problem solving skills to unlock Breakout EDU boxes and create their own Breakout games for students to play. New technology tools will also be shared with the students as they become available.

WEB PAGE DESIGN

1 Credit
Grade 9-12 Level 1 Elective

Prerequisite: None

Web Page Design will teach students how to design websites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages-such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model- to develop and maintain a web page. This course may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods, and networking fundamentals.

COMPUTER AND INFORMATION TECHNOLOGY

1 Credit
Grade 9-12 Elective

Prerequisite: None

This introductory course will give students the tools they need to succeed in the 21st century. Students will learn to identify the components of a computer and how to build one. They will learn effective search techniques and how to navigate the internet safely and effectively, while also learning about modern computer advancements and businesses. Students of any skill level will acquire tools necessary to use computers effectively.

Computer Programming

1 Credit
Grade 9-12 Elective

Prerequisite: Computer and Information Technology or Instructor approval

Computer Programming will teach students the knowledge and skills to construct computer programs while learning to read and write code. Students will learn concepts such as loops and functions and use code such as Python and Swift to construct computer programs and apps. Students will initially learn to structure, create, document, and debug computer programs. App Development may be explored, time permitting.

ENGLISH

ENGLISH 9

2 Credit
Grade 9 Level 1 Required

Prerequisite: None

English 9 is a required one-year course for all freshmen. The course is designed to help develop a student's written communication, oral communication and reading comprehension skills. Students will write in a variety of styles (including journal, creative, essay, research and opinion) and use the writing process, as well as lessons in grammar and usage, to produce a polished product. Students will read a wide variety of literature in many different genres to gain a greater understanding of the world around us. Students will share their learning in writing, projects, oral reports and assessments.

ENGLISH 10

2 Credit
Grade 10 Level 2 Required

Prerequisite: Level 1 (English 9)

English 10 consists of two semesters devoted to literature and written and oral communication. The semesters will include a cross-section of World literature with an integration of writing projects and oral presentations. Works of fiction, nonfiction, poetry and drama are included within the literature sections. Special units include Orwell's *Animal Farm* and Steinbeck's *Of Mice and Men*, language acquisition with a focus on prefixes and suffixes, written communication, and a Lincoln-Douglas Debate unit. Much of the one semester is devoted to writing a research paper, which must be completed at a passing level in order to pass that semester of English 10 and to go on to Level 3 electives and required courses.

ENGLISH 11

2 Credit
Grade 11 Level 3 Required

Prerequisite: English 10

The central purpose of this year-long, required course is to extend students' growth and knowledge of the English language within the American literature genre. English 11 includes a variety of American literature and poetry, as well as an intense focus on reading and writing in preparation for college and the workplace. Rather than focusing on the chronological order of American literature, the course will arc through four interrelated themes- (1) The Great American Prairie: American Identity in the Midwest; (2) American Nightmares: Poe's Gothic Literature (3) Song of Myself: Poets of America; and (4) The American Highway: In Search of America. Students will master reading comprehension, stylistic writing, language acquisition, oral communication, listening skills, logical thinking, understanding media, and utilization of technological skills in order to answer the essential questions within each of the four themes.

BRITISH LITERATURE

1 Credit
Grade 11-12 Elective

Prerequisite: English 10

The central purpose of this semester-long, elective course is to extend students' growth and knowledge within the British literature genre. British literature includes a variety of literature and poetry, as well as an intense focus on reading and writing in preparation for college and the workplace. This course will examine British literature through the theme of "The Evolution of Storytelling." Students will read three novels by British authors, analyzing the similarities and differences of each author's storytelling techniques. Students will master reading comprehension, oral communication, listening, discussing, understanding media, and utilization of technological skills will be applied throughout the year to help students enhance their understanding of British literature.

MULTICULTURAL LITERATURE

1 Credit
Grade 11-12 Elective

Prerequisite: English 10

The central purpose of this semester-long, elective course is for students to embark upon a "trip around the world" through literature. This course will focus on literature by and about people of diverse backgrounds. Students will explore themes of linguistic and cultural diversity by comparing, contrasting, analyzing, evaluating, and critiquing writing styles and universal themes. Students will further study issues of identity, race, representation, culture, politics, art, and film. Multicultural literature includes a variety of literature and poetry, as well as an intense focus on reading and writing in preparation for college and the workplace. Reading comprehension, oral communication, listening, discussing, understanding media, and utilization of technological skills will be applied throughout the year to help students enhance their understanding of Multicultural literature.

AP LITERATURE AND COMPOSITION

2 Credits
Grade 11-12 Elective

Prerequisite: English 10 C or higher

AP Literature and composition is a fast-paced, college-level content course meant to challenge you to think critically and analytically about classic and contemporary literature. This course is designed for those in 11th and 12th grade who have successfully completed both English 9 and English 10 at a C+ or better. Students are expected to read outside of class and to be prepared to think about, discuss, and write about literature at a high level. Assessments include written essays, class discussions, and analytical projects as well as narrative writing modeled from class readings.

Students who take this course will take the AP Literature and Composition exam in the spring -- successful completion of which MAY result in exemption from introductory college literature courses (depending on the college requirements).

INDEPENDENT ENGLISH/LANGUAGE ARTS

1 Credit
Grade 9-12 Level 1 Elective

Prerequisite: None

The central purpose of this semester-long, elective course is to extend students' growth and confidence in their independent reading skills. The course is designed to engage students in reading, discussing, and thinking critically about the value and importance of independent reading in today's world. This course allows students to pursue an individual reading program selected by the individual with direction from the instructor. Students will be expected to choose literature that both interests and challenges them, and will express their knowledge of that literature through a variety of formative assessments, both written and creative. Creative reports and oral conferences with the instructor, along with the number of pages read, are used to evaluate student achievement and progress.

SPEECH

1 Credit
Grade 10-12 Level 2 Required Elective

Prerequisite: Level 1

Speech is a one semester introductory course designed to build confidence and improve oral presentation as well as listening skills. Activities include interpersonal exercises, group discussion, formal public speaking, problem discussion and researching, constructing, preparing for and delivering the public speech. Speech is recommended for students who wish to build their oral communication skills. This course will fulfill one semester unit of the English requirement for graduation.

COLLEGE PREP WRITING

1 Credit
Grade 11-12 Level 4 Elective

Prerequisite: Earn a grade of C- or higher in Eng. 11 (or instructor approval)

College Prep Writing is a one-semester course designed to improve a student's written style and to prepare them for the writing they will be expected to complete in college and in the workplace. The course will be required to complete extensive writing in a variety of formats: expository, narrative, descriptive, and persuasive. Emphasis will be placed on paragraph development, organization of ideas into an essay, logical reasoning, appropriate use of grammar conventions, and an advanced form of vocabulary. Throughout the class students will engage in self and peer-evaluation of writing. This course will fulfill one semester unit of the English requirement for graduation.

REAL WORLD ELA

1 Credit
Grades 10-12 Elective

Prerequisite: Successful completion of English 9

Real World ELA is a class that helps students build the fundamental skills of reading, writing, speaking, and listening in an authentic environment. Students will spend time reading high-interest, highly relevant texts (articles and books), evaluate those texts for authenticity and accuracy, and talk about those texts as adult readers do. Students will spend time writing in authentic ways on a variety of platforms, including Social Media -- blogs, tweets, posts, and letters to specific audiences about high-interest, highly relevant topics. Students will spend time learning how to critically listen to and watch (another form of reading) visual texts, including documentaries, videos, art, and advertisements. Finally, students will spend time talking about what they have read, written, and watched in order to gain a better understanding of the perspectives of others while exhibiting confidence in sharing their own thoughts and opinions supported with authentic evidence, not fake news.

MEDIA STORYTELLING I

1 Credit
Grade 9-12 Elective

Prerequisite: None

Limit: 10 Students

This course focuses on the fundamentals of photography, photo editing within Photoshop, and news writing. Students will create photography portfolios, yearbook spreads, and news stories throughout the semester. The skills learned in the course will hopefully build a foundation on which students can expand their understandings through the subsequent Media Storytelling programs (II & III).

VIDEO PRODUCTION

1 Credit
Grade 9-12 Elective

Prerequisite: Media Storytelling I
Limit: 10 Student

This course focuses on the fundamentals of video production, which includes writing, camera work, filming, performing, and editing. Students will use beginner programs like iMovie and eventually transition to more complex programs such as Final Cut Pro. With these programs, students will create weekly video content promoting Logan-Magnolia: news broadcasts, promotional videos, parody videos, and others. The skills learned in this course will provide students with hands-on experience with state-of-the-art technology and programs in regards to video production.

MEDIA STORYTELLING II

2 Credits
Grade 10-12 Elective

Prerequisite: Media Storytelling I as well as submit a letter of intent that describes specific projects the student would like to participate in and explain commitment to the course.

Media Storytelling II is a course that builds on the lessons learned in Media Storytelling I. Students will maintain a personal website using WordPress, edit it and manage its content as if they were journalists in the field. Students will also produce quality stories, photos and layout designs for the school's annual yearbook and monthly newspaper.

This course will use a mixture of lecture and lab work. Two days a week, students of Media Storytelling II will meet in the auditorium for lecture. Students will receive their yearbook and newspaper assignments and will be given new information regarding upcoming lessons and assignments. Students will use the remaining three days of the week to work in the classroom on their individual assignments (with the teacher present).

MEDIA STORYTELLING III/IV

2 Credits
Grade 11-12 Elective

Prerequisite: Media Storytelling II as well as submit a letter of intent that describes specific projects the student would like to participate in and explain commitment to the course.

This course is an extension of Media Storytelling II where students will use the skills developed in all prerequisite courses to complete independent, authentic projects. Students who wish to enroll in this course are required to successfully complete an application and interview prior to enrolling in the class.

HEALTH

HEALTH

1 Credit
Grade 9-12 Level 1 Elective

Required
Prerequisite: None

Health is a one-semester course that focuses on what students can do for themselves to meet the objectives of the state core standards and illustrates the impact their attitudes and behaviors have on the world around them. Students will learn that they are responsible for their personal well-being and that building a solid foundation of health literacy and decision-making skills can contribute to positive healthy choices throughout life. In addition, they will explore the impact their personal health has on society as a whole.

Health instruction includes personal health; family life across the life span; human growth and development; substance abuse and use; emotional and social health; prevention and control of disease, including sexually transmitted diseases and acquired immune deficiency syndrome, current crucial health issues, human sexuality, self-esteem, stress management, interpersonal relationships and CPR/First Aid Training.

HEALTH 2

1 Credit
Grade 9-12 Level 1 Elective Required

Prerequisite: None

Health 2 is a one-semester course that focuses on what students can do for themselves to meet the objectives of the state core standards and illustrates the impact their attitudes and behaviors have on the world around them. Students will learn that they are responsible for their personal well-being and that building a solid foundation of health literacy and decision-making skills can contribute to positive healthy choices throughout life. In addition, they will explore the impact their personal health has on society as a whole.

Health Instruction will include personal health; food and nutrition; environmental health; safety and survival skills including CPR; emotional and social health; development; prevention and control of disease, including sexually transmitted diseases and acquired immune deficiency syndrome, current crucial health issues, self-esteem and stress management.

MATHEMATICS

Tiered Algebra

2 Credits
Grades 9-10

Prerequisite: None

The first part in a multi-part sequence of Algebra I. This course generally covers the same topics as the first semester of Algebra I, including the study of properties of rational numbers (i.e., number theory), ratio, proportion, and estimation, exponents and radicals, the rectangular coordinate system, sets and logic, formulas, and solving first degree equations and inequalities.

ALGEBRA I

2 Credits
Grades 8-12

Prerequisite: C- in 8th Grade Math or Administrator Approval

Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with factoring of polynomials; and solving simple equations.

ALGEBRA II

2 Credits
Grade 11-12 Elective

Prerequisite: C- in Geometry or Geometry Concepts

Topics studied in this course include the rational, real and complex numbers, operations of polynomials (addition, subtraction, multiplication, division), synthetic division, special products, factoring, relations and functions of linear equations (solving for one variable, slope, slope intercept form, parallel and perpendicular lines, distance formula, midpoint formulas), second degree equations, solving by graphing, addition, subtraction, determinant methods, exponents, geometric sequences and series, factorials, combinations, permutations, probability and basic trigonometric concepts. This is a two-semester class.

ALGEBRA II CONCEPTS

2 Credits
Grade 11-12

Prerequisite: Pass Geometry or Geometry Concepts

Topics studied in this course include but may not be limited to the operations of polynomials, special products, factoring, relations and functions of linear equations, second degree equations, solving by graphing, exponents, probability and basic trigonometric concepts. This is a two-semester class.

GEOMETRY

2 Credits
Grades 10-12

Prerequisite: C- or higher in Algebra I

Basic geometric terms, theorems and postulates and how to apply them to direct proofs and other problems are discussed in this course. Topics include congruence of triangles, perpendicular lines, similar triangles, the circle, finding areas (polygons and circles), lateral area and total area and volume. Basic trigonometric functions of sine, cosine, tangent and their applications are studied. Focus of points is also studied. This is a two-semester class.

GEOMETRY CONCEPTS

2 Credits
Grades 10-12

Prerequisite: Pass Algebra Concepts I and II

This course will include a basic introduction and application of geometrical theorems that include but may not be limited to the congruence, similarity, area, volume, and trigonometry. This is a one-year course.

TECH MATH

2 Credits
Grade 10-12 Elective

Prerequisite: Pass Algebra I with a C- or higher

This course covers math concepts that students may use in occupational and trade settings equipping them with a solid foundation of the math needed for a variety of technical and vocational trades. The math concepts are presented completely within the context of practical on the job applications, including health, electrical, plumbing, and construction trades, just to name a few.

COLLEGE TRANSITION MATHEMATICS

1 Credit
Grades 11-12 Elective

Prerequisite: Successful completion of Algebra II

This course will explore the topics needed for success in any entry-level college mathematics class. Develop numeracy, with an emphasis on estimation and fluency with large numbers. Learn how to manipulate and evaluate expressions, as well as, formulas, rates, ratios, and proportions. Study percentages, linear equations and inequalities, linear systems, exponential, quadratic, rational, and square root models. Understand data interpretations, probability, verbal, algebraic, and graphical interpretations of functions. Explore the topics needed for success in any entry-level college mathematics class.

PROBABILITY AND STATISTICS

1 Credit
Grades 10-12

Prerequisite: Pass Algebra II

Course Description: An introductory course designed to promote the understanding of basic statistical concepts. Topics covered are methods for describing sets of data; probability; discrete random variables; continuous random variables; sampling distributions; inferences based on a single sample: estimation; inferences based on a single sample: tests of hypotheses.

TRIGONOMETRY

1 Credit
Grades 11-12

Elective

Prerequisite: C- or better in Algebra II

This one semester course is devoted to the study of plane trigonometry. Trigonometry is an analysis of the sides and angles of a triangle. The relationships in trigonometry are used in the solution of all types of triangles. There is an emphasis on the applications used in surveying, navigation, engineering, and the physical sciences. If a student is successful in trigonometry, the next course to take would be calculus.

PRE-CALCULUS

1 Credit
Grades 11-12

Elective

Prerequisites: C- or better in Trigonometry

This is a one semester course which deals with and extension of Algebra II with the intent to develop skills for Calculus. Some the Algebra II concepts are covered in more depth. These include the theory of functions themselves. Also included are the rational, polynomial, exponential, and logarithmic functions. Sequences, both arithmetic and geometric, are discussed. The students are also introduced to mathematical induction and the binomial theorem. If a student is successful in Pre-calculus the next course to take would be trigonometry.

AP CALCULUS

2 Credits
Grades 11-12 Elective

Prerequisite: C average in Pre-Calculus

Following the College Board's suggested curriculum designed to parallel college-level calculus, AP Calculus AB provides students with an intuitive understanding of the concepts of calculus and experience with its methods and applications. This course introduces calculus and includes the following topics: elementary functions; properties of functions and their graphs; limits and continuity; differential calculus (including definition of the derivative, derivative formulas, theorems about derivative, geometric applications, optimization problems, and rate-of-change problems); and integral calculus (including antiderivatives and the definite integral). At the conclusion of the course an

AP Final Exam will be given. The exam is required and exam costs will be covered by the district.

SCIENCE

PHYSICAL SCIENCE

2 Credits
Grade 9 Level 1 Required

Prerequisite: None

Physical Science is a required freshman course that introduces students to chemistry and physics. The students will study problem solving procedures and experimental techniques. Major topics may include matter and energy, chemistry in our world, motion, forces of energy, wave motion and the electromagnetic nature of matter. The year long course will prepare students for higher education in related fields and will give them a better understanding of the modern scientific world.

BIOLOGY

2 Credits
Grade 10 Level 2 Required

Prerequisite: Level 1

Emphasis is placed on cellular biology during first semester. Topics that are covered are: the cell (its structure and function), diffusion and osmosis, DNA replication, protein synthesis, cellular respiration, photosynthesis, mitosis (growth and repair), meiosis (sexual reproduction), genetics, taxonomy, viruses, monerians and protists. The knowledge of the cell and its processes will prepare the student for the second semester of biology. Second semester is focused on the animal kingdom; their anatomy, physiology and behavior will be discussed. Following the study of each animal group there will be a dissection of an organism typical of that group. The first and second semesters of biology will help prepare students for Human Physiology and Anatomy.

EARTH SCIENCE

1 Credit
Grades 10-12

Prerequisite: Must pass first semester Physical Science with a C- or higher

This course is designed to offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principals essential to students' understanding of the dynamics and history of the earth, this course usually explore oceanography, geology, astronomy, meteorology, and geography. The course also looks at the relationship between human activity and natural resources; including topics such as consumption, depletion, and conservation.

AGRICULTURAL SCIENCE

2 Credits
Grade 11-12 Level 3 Elective

Prerequisite: Level 2

Class size limit: 16

Agricultural Science covers a wide range of topics concerning agriculture and natural resources, including plant and animal science, production, and processing; environmental science and conservation; ecology; and the careers available in the agricultural/natural resources industry. They may also include topics such as chemical and soil science and forestry.

HUMAN ANATOMY and PHYSIOLOGY

2 Credits
Grade 11-12 Level 4 Elective

Prerequisite: Level 3 Course or Instructor Approval

Students in this class are to understand the structure and function of the cell and its organelles. Students will have an understanding of the cell processes (cellular respiration, protein synthesis, DNA replication). Students will be able to describe the general characteristics and functions of the four major types of tissues in the human body. They will also identify the specific kinds of tissues in these four groups in a laboratory situation. Students will study each of the human systems in detail. Following the study of each system there will be a comparative dissection of that system on the cat. A separate lecture test and lab practical is given over tissues and each of the systems following the completion of that chapter. This is a one-year class.

CHEMISTRY

2 Credits
Grade 11-12 Level 4 Elective

Prerequisite: Level 3 Course or Instructor Approval

Chemistry is a college preparatory class that spans two semesters. The class is designed primarily for juniors and seniors who have successfully completed Physical Science, Biology, and Algebra I. The class will study inorganic chemistry and will briefly touch on organic chemistry as well. A problem solving and experimental approach is emphasized in this course.

PHYSICS

2 Credits
Grade 12 Level 5 Elective

Prerequisite: Level 4 Course

Physics is a college preparatory class that spans two semesters. The class is designed primarily for seniors who have successfully completed a number of science and math courses. The students will study mechanics and heat, waves, electricity and magnetism and will receive a brief introduction to nuclear physics. A problem solving and experimental approach is emphasized in this course. This course is recommended for students who are planning a college major in engineering, chemistry, physics, astronomy, or industrial systems (architecture).

SENIOR BIOLOGY

2 Credits
Grade 12 Level 5 Elective

Prerequisite: Level 4 Course

This class will be a botany/ecology class. The topics of this class will range from ecosystems and habitat to the study of spore plants and seed plants. There will be lab work in the classroom and in the field. This course will help prepare students for higher levels of education and give them a better understanding of the world of living things.

SOCIAL STUDIES

AMERICAN HISTORY

2 Credits
Grade 9 Level 1 Required

Prerequisite: None

American History is a two-semester class. The first semester begins with Westward Expansion after the Civil War and ends with a study of the “Years Between the Wars” which encompasses the Roaring Twenties, the Great Depression, and the Rise of Fascist dictators in Europe. Semester two begins with World War II and ends with what is happening in our nation in current times. Much of the class is centered on “Project-Based” learning with a strong emphasis on research and incorporating primary source materials.

WORLD HISTORY

2 Credits
Grade 10 Level 2 Required

Prerequisite: Level 1

World History is a two-semester course. The course is entitled World History, but the emphasis is on Middle Eastern and European history. Asia, Africa and the Americas are discussed periodically within specific chapters. The course begins with a unit on the River Valley Civilizations and follows the development of the great civilizations of the world.

CONTEMPORARY WORLD ISSUES

1 Credit
Grades 11-12 Elective

Prerequisite: Must complete American History with a C- or higher.

Contemporary World Issues is a course constructed to help students investigate and study political, economic, and social issues facing the world. This course will focus on current issues, examine selected issues throughout the 21st century, and look at historical causes or possible solutions. This course is constructed to be taught in reverse chronological order.

AMERICAN GOVERNMENT

1 Credit
Grade 12 Level 4 Required

Prerequisite: Level 3 Course

This one semester course offers a presentation of our government as it evolved from the failure of the Articles of Confederation. The democratic process found in the U.S. is emphasized - which includes a study of federalism. Our political parties and how our government operates is discussed. A close look at the functions of Congress, the presidency and the Supreme Court is made to enable students to understand their role in society.

SPECIAL TOPICS IN AMERICAN GOVERNMENT

1 Credit
Grades 11-12 Elective

Prerequisite: American Government, Enrollment in American Government or Instructor Approval for students with good knowledge of Government Topics

This one semester class will go more in depth with the branches of government and how they affect our lives in the present day. Students will understand how government works at the state and local levels. Topics tend to rotate based on students enrolled in class, but have included foreign policy, health care, two-party system, special interest groups and their impact on government, as well as inquiries into specific presidencies like FDR and Lincoln.

WORLD GEOGRAPHY

1 Credit
Grade 10-12 Elective

Prerequisite: None

World Geography is a course designed to give students an overview of topics widely covered in geography. Topics may include physical environment, political landscape, cultural, economic issues and movement of people, goods and ideas.

PSYCHOLOGY

1 Credit
Grade 11-12 Level 3 Elective

Prerequisite: Level 2

This one semester course is recommended for upper level students. It will include phases of psychology, sociology and modern problems developed around the workings of the human mind. The course should assist students on self-understanding and should also help in learning to work together. Some time will be spent with the historical development of psychology. The areas of child psychology, adolescent psychology, abnormal psychology and clinical psychology will be covered along with the development of mental illnesses, their causes and treatment.

SOCIOLOGY

1 Credit
Grade 11-12 Level 3 Elective

Prerequisite: Level 2

The study of sociology examines the way people interact with one another and how they influence each other's decisions. Sociology involves the study of group dynamics, social institutions and the organization of societies. Sociology is also a study of some of the problems facing the world today and possible solutions for those problems. The course will investigate the development and characteristics of sociology and the procedures Sociologists use in collecting data. The course will cover all major areas of sociology in a blend of concept, theory and application. This is a one-semester class.

SPECIAL TOPICS IN SOCIOLOGY

1 Credit
Grade 11-12 Elective

Prerequisite: Sociology or Instructor Approval for students with knowledge of the social sciences.

Special topics in Sociology covers the same topics of Sociology but is a project-based class in which students will study in-depth cases of Sociology throughout history and other specific events. Particular attention is given to cultural differentiation, ethnic relations, collective behavior and social movements, conflict, WWI and WWII, each of which students will explore the complicated explanations of human interaction. Historical examples are showcased.

FOREIGN LANGUAGE

SPANISH I

2 Credits
Grade 9-12 Level 1 Elective

Prerequisite: Earned a C or better in most recent English course.

Spanish I is an introductory class to the Spanish language. This course will start with the basics of Spanish grammar and a wide variety of vocabulary. Culture and current events in Spanish speaking countries are discussed and used to critically think about the world and the role different groups play in it. This class focuses on the present tense, which is the simplest tense in Spanish. This will be a foundational class in the progression of the 4 courses. This course is open to all high school students in all grades. This is a one-year class.

SPANISH II

2 Credits
Grade 10-12 Level 2 Elective

Prerequisite: Level 1 with at least a C average

Spanish II builds on the foundation skills of Spanish I. This course should be taken immediately after Spanish I if at all possible. This course will continue work on the present tense and more complex grammar structures and more vocabulary. Spanish II will work toward the past tense, which has two parts in Spanish. This course will provide students with the essential skills to be capable of navigating a Spanish speaking country with supports such as dictionaries or guides. Culture and current events in Spanish speaking countries are discussed and used to critically think about the world and the role different groups play in it. This is a one-year class.

SPANISH III

2 Credits
Grade 11-12 Level 3 Elective

Prerequisite: Level 2 with at least a B average

Spanish III will focus on complex grammar structures and a wider variety of vocabulary. This course will focus on concepts that are above and beyond basic conversations. This includes: complex tenses, lesser known rules and rules about accents and pronunciations. Culture and current events in Spanish speaking countries are discussed and used to critically think about the world and the role different groups play in it. This course will include reading, writing and researching in Spanish and about Spanish topics. This course should prepare students to be able to competently navigate a Spanish speaking country with little aid. A student should have done above average work in Spanish II to do well in Spanish III. This is a one-year class.

SPANISH IV

2 Credits
Grade 12 Level 4 Elective

Prerequisite: Level 3 with at least a B average

Spanish IV is a culmination course. This course will utilize all of the grammar and vocabulary from Spanish I, II, and III to refine speaking, listen, reading, and writing skills. Spanish IV includes independent research, work and studying. The vocabulary selected will be more career and interest focused. Culture and current events in Spanish speaking countries are discussed and used to critically think about the world and the role different groups play in it. This course will prepare students to navigate a Spanish speaking country with ease. This course will also prepare students for university level Spanish and assist them if they choose to pursue a major or minor in Spanish. A student should have done above average work in Spanish III to do well in Spanish IV. This is a one-year class.

Spanish Conversation and Culture

2 Credits
Grade 10-12 Elective

Prerequisite: Pass Spanish I with a B- or higher.

This course will build on Spanish 1 skills of basic grammar and vocabulary to improve speaking and listening skills. This will be a combination of different levels of Spanish students which will help lower levels learn more grammar and vocabulary in a more natural way and help upper levels polish their skills and learn more complex skills such as rephrasing or circumlocution. Both upper and lower levels will benefit and gain more confidence in speaking Spanish. The speaking and listening will be practiced using the text and using authentic videos such as news in Spanish, clips from TV shows and movies in Spanish, songs in Spanish, or listening to stories. This class will also focus on Spanish culture through discussions of history of Spanish speaking countries and current events in Spanish speaking countries and the US. This class will be conducted in Spanish. This class could include field trips and authentic experiences.

CAREER AND TECHNICAL EDUCATION COURSES

BUSINESS EDUCATION

ACCOUNTING I

2 Credits
Grade 10-12 Level 2 Elective

Prerequisite: Business Law

Accounting I is planning, recording, analyzing, and interpreting financial information is called accounting. This book breaks down the essential steps to understanding how the basic functions of the accounting system work by using accounting-related work situations. Throughout each chapter, there will be daily work, a study guide, and a test. The first semester we cover the first ten chapters, with the last ten chapters covered in the second semester. This class will give students a better perspective on how the daily transactions occur between the consumers and businesses alike.

BUSINESS LAW

1 Credit
Grade 9-12 Elective

Prerequisite: None

The course Business Law covers a variety of areas dealing with the laws that we have in our legal system and how ethics play an important role. This course will cover a variety of materials, including the history of our legal system and how it affects minors, consumers, and business as well. Some material we'll cover has to deal with legal contracts that we make and the legal ramifications resulting from those agreements. Another large portion of our material will deal with understanding our nation's founding documents (Declaration of Independence, Articles of Confederation, U.S. Constitution, Bill of Rights) and how they affect business transactions in the past and present.

CORE

2 Credits
Grade 12 Level 4 Elective

Prerequisite: Grade Level 12

This is a course that will give students skills that are essential to their employability in the modern work force. Students will participate individually and in groups for leadership, entrepreneur and communication activities. Students will also learn how to find jobs that would interest them, get the job, and keep the job. Activities will include application procedures, resume writing, interviewing, budgeting money and consumerism. Students may take this class for a semester or an entire year.

SALES AND MARKETING

2 Credits
Grade 10-12 Level 1 Elective

Prerequisite: None, Instructor Approval

Throughout this course students will learn the fundamentals of sales and marketing. This class focuses on current topics in business and marketing including the 4 P's: Product, Price, Place & Promotion. The class will also include topics on retail sales, business presentations, management, entrepreneurship, ethics, career exploration, and business and marketing plans. Students in sales and marketing will learn specific marketing concepts and work in real time scenarios to develop marketing strategies and conduct market research. Students will have the opportunity to use these skills while working together with Media Storytelling 2 students and Big Cat Industries to create advertising and promotional material.

Work-Based Learning (WBL)

1 Credit/Hour
Grade 12 Elective

Students will take part in a structured educational experience that integrates classroom learning initially to prepare students for placement and success in a work based learning situation off campus. This structured work experience can be paid or unpaid and will take place daily after initial classroom activity. This work experience will be focused in areas of interest for students and take place in a student's desired program of study. Students will gain valuable employability, communication and workplace readiness skills and experience.

FAMILY AND CONSUMER SCIENCE

HUMAN SERVICES CAREER EXPLORATION

1 Credit
Grade 9-12 Level 1 Elective

Prerequisite: None

Human Services Career Exploration is a course that introduces and exposes students to career opportunities pertaining to the provision of personal and consumer services for other human beings. Topics include, but are not limited to, caring for others, education, cosmetology, apparel/textiles, entrepreneurship, labor laws, and customer service.

LIFE SKILLS

1 Credit
Grade 9-12 Elective

Prerequisite: None

Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize process skills, including goal-setting, decision making, and other topics such as the setting of priorities, money and time management, interpersonal relationships, and the development of the self. Additionally, specific topics such as wellness, selecting and furnishing houses, meeting transportation needs, nutrition, preparing food, selecting clothing and building a wardrobe, insurance, taxation, and consumer protection may also be covered.

FASHION DESIGN AND APPAREL

1 Credit
Level 1 - Grades 9-12 Elective

Prerequisite: Human Services Career Exploration

Fashion Design and Apparel focuses on the study of the fashion and garment industry with emphasis on the basics of design and construction. Students will develop a global view and weigh design decisions within the parameters of ecological, socio-economic, and cultural contents. Concepts are applied with hands-on learning experiences as students study career pathways, textiles, fashion design, apparel construction, consumer behavior, products, and materials of the fashion industry.

INTERIOR DESIGN I

1 Credit
Grades 9-12 Elective

Prerequisite: Human Services Career Exploration

Interior Design will provide students with the basic knowledge regarding furnishings and decorating of home environments. While exploring design principles, personal needs and style, and decision making students may also explore the following topics: color, texture, furniture styles and arrangement, lighting, window treatments, floor and wall coverings, and home improvement/modification. Interior design may also cover architectural style and design and take a larger look at housing problems or current housing issues.

INTERIOR DESIGN II

1 Credit
Grade 10-12 Elective

Prerequisite: Interior Design I

Interior Design II is an extension of Interior Design I and will be a class that focuses on the selection, design, and construction of home accessories and/or furnishings. The course will enhance the students understandings developed in Interior Design I through the practice and use of equipment, decorating principles, and employability skills.

FAMILY LIVING

1 Credit
Grades 9-12 Elective

Prerequisite: Human Services Career Exploration

Family Living emphasizes the family as the basic unit of society while exploring the complexities of relationships throughout the lifespan in an ever-changing society. The establishment and maintenance of the interpersonal relationships, preparation for the various stages of life and the management of resources to achieve individual and family goals are the focus of the course. FCCLA is incorporated throughout this course.

CHILD DEVELOPMENT

1 Credit
Grades 9-12 Elective

Prerequisite: Human Services Career Exploration

Human development is an amazing process that begins at conception and continues over the life course. This class provides an introduction to the fundamentals of children's physical, cognitive, social, and emotional development, from the prenatal period through adolescence. We will use a scientific framework to guide our study of how children develop. Students are expected to acquire a basic understanding of how factors within the child, family, and broader society shape the process of development, and we will focus in detail on several key issues facing children in our society today. FCCLA is an intricate part of Family and Consumer Sciences Education and will be utilized throughout this course.

EARLY CHILDHOOD EDUCATION

1 Credit
Grade 9-12 Elective

Prerequisite: Child Development

Early Childhood Education addresses child development, care, and education issues, so that students can guide the development of young children in an educational setting. Study topics will include planning and implementing developmentally appropriate activities, basic health and safety practices, and legal requirements for teaching young children.

FOOD AND NUTRITION (Intro to Foods)

1 Credit
Grades 9-12 Elective

Prerequisite: Human Services Career Exploration

Intro to Foods will provide students with an understanding of food and nutrition and its role in society. Instruction in the course will focus on how to plan and prepare meals, experience in the proper use of equipment and utensils, and background knowledge on the nutritional needs and requirements for healthy living.

CULINARY SPECIALTY – Baking

1 Credit
Grade 10-12 Elective

Prerequisite: Food and Nutrition

This culinary specialty course will focus on the specifics of baking. Topics of study will include cake decorating, dessert preparation, and other baking specifics. This course will help students understand and properly utilize recipe development, tools, and presentation skills used in the baking industry.

CULINARY SPECIALTY – RESTAURANT MANAGEMENT

1 Credit

Grade 10-12 Elective

Prerequisite: Food and Nutrition

Restaurant Management will provide students with the knowledge and skills related to commercial and industrial food service establishments. The course will have an emphasis on management of such facilities. Topics covered will include guest services, planning, resource management, and operations.

HEALTH SCIENCE

INTRO TO HEALTH CARE CAREERS

1 Credit
Grade 11-12 Elective

Prerequisite: Must be a junior or senior with instructor approval.

Student will have a basic introduction to the history of health care, health care systems, professionalism, and legal and ethical responsibilities of the health care worker. The communication process will be introduced as well as an understanding of patients' needs and behaviors. Students will learn First Aid/CPR which prepares the students with lifesaving, hands-on instruction in many emergency situations. Emphasis centers on real life responses and what to do in the first five minutes of an emergency.

HEALTH SCIENCE II - CNA

1 Credit
Grade 11-12 Elective

Prerequisite: Health Science I

This course is designed to teach students the skills necessary to become a qualified Nursing Assistant. Emphasis is on learners achieving a basic level of knowledge and demonstrating skills to provide safe, effective resident care. The students time will be divided between classroom instruction, laboratory time, and supervised experience in the nursing home setting. Additional time is required outside of class for clinical experience. This may be in the evening or on weekends.

MEDICAL TERMINOLOGY

2 Credit
Grade 11- 12 Elective

Prerequisite: Instructor Approval

Medical Terminology is a course designed to help students learn how to identify medical terms by analyzing their components. An emphasis is placed on defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing oral and written skills in the language used to communicate in the health care professions.

FOUNDATIONS OF HEALTH CARE - COMPREHENSIVE

The Foundations of Health Care sequence are comprehensive courses that will provide students with an orientation to the healthcare industry and help refine their health care related knowledge and skills.

FOUNDATIONS OF HEALTH CARE I:

1 Credit
Grade 11-12 Elective

Prerequisite: Intro to Healthcare Careers

Topics covered (but are not limited too) in this course are: CPR Methods with Certification; Emergency Care; Ethnic Diversity; Healthcare Systems; Medical Terminology; Safety Precautions; Wellness and Nutrition

FOUNDATIONS OF HEALTHCARE II:

1 Credit
Grade 11-12 Elective

Prerequisite: Foundations of Healthcare I

Topics covered (but are not limited too) in this course are: Anatomy & Physiology; Dementia Care; Diseases and Disorders; Health Career Exploration; Human Growth & Development; Medical Mathematics.

INDUSTRIAL TECHNOLOGY

MANUFACTURING SYSTEMS

1 Credit
Grade 9-12 Level 1 Elective

Prerequisite: None

This one semester course is designed to introduce students to modern manufacturing processes. Students will experiment with and learn to safely use the many tools, materials and processes currently used in industry. Areas that will be investigated will include woodworking, metalworking, construction, arc welding, wire welding, Oxy/Ace torching, metal casting, mass production and drafting and design. This course is a prerequisite to enroll in all other industrial technology courses.

MANUFACTURING SYSTEMS II

1 Credit
Grade 10-12 Level 2 Elective

Prerequisite: Level 1 Courses

One semester course that is an extension of MAN I.

MODERN WOOD WORKING

1 Credit
Grade 10-12 Level 3 Elective

Prerequisite: Level 1 Courses

This one semester course is designed to teach the students about the basic methods, tools and materials used in woodworking. Lab activities will be centered around students' individual projects - including design, processing and finishing. Safety and problem solving are some of the key elements related to this course.

MODERN WOOD WORKING II

1 Credit
Grade 10-12 Level 3 Elective

Prerequisite: Level 2 Woods I with a B or Better.

This course is designed for students who excelled in woods I.

DESIGN DRAFTING

1 Credit
Level 1 Elective

Prerequisite: None

This course is designed to study the design process. Problem solving and developing drawings will be a big part of the class. Computer Aided Drafting will be used in the development of some of these plans.

3D COMPUTER AIDED DRAFTING

1 Credit
Level 2 Elective

Prerequisite: Design Drafting

This class will focus on the design and building of 3D parts. 3D objects will be created using 2D graphics. Students will also build and utilize a library for 3d parts.

SMALL ENGINES

1 Credit
Grade 10-12 Level 2 Elective

Prerequisite: Manufacturing Systems

This is a one-semester course that will consist of an overall study of small gas engines ranging from one cylinder to a two cylinder engine. The students will be introduced to the major parts of small gas engines. They will be taught to troubleshoot, repair, disassemble and reassemble small gas engines. They will understand all of the simple machines and how they help us in our everyday lives.

SMALL ENGINES II

1 Credit
Grade 10-12 Level 3 Elective

Prerequisite: Small Engines I

This is a class offered for students who would like to explore Small Engines more in depth.

WELDING I/II

1 Credit
Grade 10-12 Level 3 Elective

Prerequisite: Level 2

Welding enables students to gain knowledge of the properties, uses, and applications of various metals, skills in various processes used to join and cut metals (such as oxyacetylene, shielded metal, metal inert gas, and tungsten arc processes), and experience in identifying, selecting and rating appropriate techniques.

WELDING CERTIFICATION - IOWA WESTERN COMMUNITY COLLEGE

The Welding Certification program will be offered at LoMa in the fall of 2021. This program prepares students to enter into industry as beginning production, maintenance, or job shop welders. Students are trained in the latest techniques in fabrication of materials by welding processes. The Welding Certificate is designed to teach fundamental techniques and principles. The pathway also provides for an overview of related topics, such as metallurgy and fabrication, layout, estimating, and repair.

1Semester Courses:

- WEL 228: Introduction to Welding, Safety, and Health of Workers 1.0
Credit
Grade 11-12 Elective Credit

Introduction to Welding, Safety and Health of Workers will provide students with an orientation of the welding profession and will cover the basics of safety and health within the welding profession.

- WEL 149: Arc Welding 3.0 Credits
Grade 11-12 Elective Credits

Arc Welding covers the fundamentals and technical knowledge of arc welding in the flat position on mild steel with different rods on different thicknesses of metal. Welding safety practices are also stressed.

- WEL 256: Gas Metal Arc Welding 4.5 Credits
Grade 11-12 Elective Credits

Gas Metal Arc Welding (GMAW) covers safety and GMAW techniques in flat, horizontal, vertical, overhead positions. This course provides a variety of hands-on projects and experiments in the laboratory settings.

2nd Semester Courses:

- WEL 233: Print Reading and Welding Symbol Interpretations 3 Credits
Grade 11-12 Elective Credits

Print Reading and Welding Symbol Interpretations provides instruction in interpreting elements of welding prints (drawings or sketches), focusing on measurement, American Welding Society welding symbols, and fabrication requirements. Students will understand how to prepare, assemble, and tack welding parts according to drawings or sketches, using proper material and tools.

- WEL 259: Oxy-Acetylene Arc Welding 1 Credit
Grade 11-12 Elective Credits

Oxy-Acetylene Arc Welding provides students with basic fundamentals of oxy-acetylene welding, cutting, and brazing. The course familiarizes students with the safe operation of the cutting torch, use of different sizes of torch tips, and various weld joints and positions.

- WEL 192: Gas Tungsten Arc Welding 4 Credits
Grade 11-12 Elective Credits

Gas Tungsten Arc Welding focuses on gas arc welding (TIG) and other related processes. Topics such as variation, welding in various positions, principle of operation, shielded gases, and filler rods are studied. Safety and practical application of these welding processes is stressed.

WELDING DIPLOMA

The Welding Technology diploma program of study prepares students to enter into the industry as production, maintenance, or job shop welders. Students learn fundamental techniques and principles, metallurgy, fabrication, layout, estimating and repair. Students will learn the different career options and welding certifications to better prepare them for the welding industry. Graduates of this program are awarded a diploma.

Students wishing to take the Welding Diploma program, must successfully complete the Welding Certificate program with a C or higher.

Courses:

- MAT 743: Technical Math 3 Credits
Grade 12 Elective Credits

Technical Math includes operations with real numbers, use of fractions, ratios, measurement conversion, algebraic equations, functions, geometry, and right-angle trigonometry. Applications are designed to the program specific needs that students encounter in industrial settings.

- MFG 190: Metallurgy 2 Credits
Grade 12 Elective Credits

Metallurgy teaches students the basic theory of ferrous and non-ferrous metals. In addition, this course focuses on how metals differ in terms of hardness, brittleness, durability, resistance to corrosion, machinability and weldability. Basic welding practices and results are analyzed.

- WEL 301: Pipe Welding 2 Credits
Grade 12 Elective Credit

Pipe Welding provides students the theory and application of pipe welding. Welding processes used are Shielded Metal Arc Welding and Gas Tungsten Arc Welding. students weld carbon steel and stainless-steel pipe joints.

- WEL 240: Welding Fabrication/Certification 3
Credits
Grade 12 Elective Credits

Welding Fabrication/Certification allows students to incorporate all previous welding skills in an effort to fabricate a group project. The student utilizes this course time to work towards AWS certification.

- WEL 208: Introduction to Fabrication 2 Credits
Grade 12 Elective Credit

Introduction to Fabrication combines lecture and lab activities to develop individualized skills needed in a manufacturing atmosphere such as tool usage, layout methods and material estimation. Students learn fabrication techniques of multiple metal types and properties.

DRAFTING AND CAD CERTIFICATION

The Drafting and CAD Certificate program of study teaches basic drafting and design fundamentals utilizing multiple industry computer-aided design (CAD) programs. Students work in entry level drafting or design positions for civil engineering firms, architect firms, and manufacturing companies. Basic surveying and construction skills are also taught. Graduates of this program are awarded a certificate.

1st Semester Courses:

- EGT 155: Engineering and Drawing Practices 3 Credits
Grades 11 & 12 Elective Credits

Engineering Drawing Practices is the development of the technical knowledge and skills required for application and interpretation of technical drawings from various industries. The course will provide students with the fundamentals of drafting and technical documentation generation according to the ASTM Y 14.1 (Engineering Drawing Practice) standards. Students will have exposure to architectural, mechanical, and electrical drawings.

- CET 160: Surveying 3 Credits
Grade 11 & 12 Elective Credit

Surveying provides students fundamental knowledge of surveying techniques used in construction and civil engineering. Topics include introduction to surveying instruments and equipment, measurement of distances and angles, determining elevation, note keeping, traversing, triangulation, mapping, and the researching of monuments and benchmarks.

- CAD 139 Introduction to CAD and CAM 3 Credits
Grade 11 & 12 Elective Credit

Introduction to CAD/CAM demonstrates the integration of Computer-Aided-Design (CAD) and Computer-Aided-Manufacturing (CAM). Students learn modern prototyping and machining methods, the use of specific software for converting 2D and 3D CAD drawing geometry directly into toolpath information used to drive numerically controlled turning and milling machines.

Semester 2 Courses:

- CET 208: Technical Drafting and CAD 4 Credits
Grade 11 & 12 Elective Credit

Technical Drafting and CAD introduces students to hands-on technical drawing and computer-aided design. Students learn manual drawings and plot and edit CAD drawings in multiple software programs utilized by industry that create two-dimensional engineering CAD drawings.

- CON 119: Construction Materials and Inspection 4 Credits
Grade 11 & 12 Elective Credit

Construction Materials and Inspection deals with construction materials of the past, present, and future. The course emphasizes the selection, application, and laboratory testing of construction materials. Students become familiar with aspects of a construction inspector's duties, responsibilities, and record keeping.

PHYSICAL EDUCATION

PHYSICAL EDUCATION

1 Credit

Grade 9-12 Level 1 Required Elective

Prerequisite: None

This program includes team sports, individual sports, dance, lifetime sports and recreational activities. Physical fitness is included in the course description. This program will also prepare students to enjoy games as a participant and a spectator in later life. This class will participate in a unit on weight training. This class meets three days a week.

This PE course is designed to be gender specific in order to allow for greater participation from all class members. There will be separate male and female PE classes.

PHYSICAL EDUCATION II

1 Credit

Grades 9-12, Level 1 Elective

Prerequisite: None

This is the same as PE but is gender specific. All male and all female classes will be offered if student registration numbers warrant.

CROSS TRAINING

1 Credit

Grade 9-12 Level 1 Elective

Prerequisite: None

Cross Training is structured around a student's personal fitness goals. Using the PLT4M program (pronounced platform), students at all fitness levels are able to determine the direction he or she wants to take their fitness. The program is easy to use with videos for further instruction. Whether it's to build muscle, increase agility and vertical, or develop mobility and all-around fitness, this class allows all students to be successful. Students will receive guidance to build a proper fitness program, injury prevention, and the nutrition necessary to optimize wellness.

MUSIC

INSTRUMENTAL MUSIC (Band)

2 Credits
Grade 9-12 Level 1 Elective

Prerequisite: Junior High Band or instructor approval

High school band is a year-long class meeting daily. Students in the high school band are required to participate in many performances throughout the year. 1st semester performances include the Magnolia Old Settlers Day Parade, all home varsity football games, select playoff games, marching band contests, the Veteran's Day Concert, the High School Winter Concert, and any other performances scheduled by the director.

Pre-season marching band camp is required for all high school band members, which takes place two weeks prior to the start of the school year. During the marching band season (August through October), students are required to attend any early morning rehearsals (7:20am) when scheduled accordingly.

2nd semester performances include all home varsity boy's/girl's basketball games, select playoff games, the IHSMA Solo/Small Group Festival, the Pops Concert, the Ceremony of Roses Concert, the IHSMA Large Group Festival, and any other performances scheduled by the director.

High School band members are required to attend 4 individual lessons each semester. These can be completed before/after school, during a class with permission from their teacher, or on weekends if approved by the director. High school band members earn points toward a letter and are also eligible to apply for scholarships awarded by various donors.

Additional Performing opportunities include the Logan 4th of July Parade, the SW Iowa District Honor Band, the Western Iowa Conference Honor Band, and numerous other honor bands hosted by colleges in the area.

ADVANCED INSTRUMENTAL MUSIC

1 Credit
9-12 Elective Credit

Grade 9-12. Prerequisite - Must also be enrolled in High School Band, Director Approval Needed

Students enrolled in this class will primarily study and perform large ensemble jazz music. Extended practice in identifying and building chords is expected of each student. Additionally, students in this class will learn how to create short, improvised solos in a structured format while performing with the full ensemble. Required performances include any concerts and contests scheduled by the director prior to the course beginning. This class meets during 8th period in the spring semester, and further responsibilities include performing for recruitment events with the elementary music students. Rehearsals for this ensemble will begin in October from 7:20am to 8:00am as scheduled.

MIXED CHORUS

2 Credit
Grade 9-12 Level 1 Elective

Prerequisite: Junior High Chorus or Instructor Approval

Students enrolled in Concert Choir will rehearse for 45 minutes every day in a Mixed Choir setting as well as a Bass Clef or Treble Clef Choir setting. Emphasis is placed on the development of the student's singing voice, the production of a choral sound and the exploration of choral literature including, classical, folk, Broadway and pop. Students are required to attend voice lessons once a week. Individual performance/audition opportunities for Choir members include a Solo/Ensemble contest, the WVC Honor Choir Festival, SWIA Honor Choir, All-State Music Festival (the highest honor an Iowa music student can receive), and the Opus Honor Choir (for freshmen only). Performance opportunities for the Concert Choir include the Winter Concert, Pops Concert, Ceremony of Roses, Large Group contest, graduation ceremonies, and the fall musical. Swing Choir is a select group chosen from those students in Concert Choir. High school choir members earn points toward a letter and also toward scholarships given by the PMA (Parent Music Association) to attend summer music camps.

ADVANCED VOCAL MUSIC

1 Credit
Grade 9-12 Level 1 Elective

Prerequisite: Member of High School Show Choir or Director Approval

Students enrolled in Advanced Vocal Music will rehearse every day in a Mixed Choir setting as well as sectional rehearsals. Emphasis is placed on the development of the singing voice, small group singing and preparation for the All-State Choir auditions in March. The repertoire will consist of the All-State literature selected by the All-State committee. Individuals enrolled in this class will be required to attend an All-State camp held at the beginning of August (2 or 3 days), the Southwest Iowa rehearsal in September and the final audition in October. Students must also be members of Concert Choir. The class is offered only 1st semester and will include a comprehensive Music Theory curriculum during the 2nd quarter. Students must have permission from Mrs. Schmitz to take this class.

MUSIC THEORY I

1 Credit
Grade 9-12 Level 1 Elective

Pre-requisite: High School Chorus or Band; 3 years Instrumental Instruction or Director approval.

This course will ensure that the student has a solid grasp of fundamentals before advancing to subject matter in which these fundamentals are used. Upon completion of this course, the student will be able to make automatic responses to questions related to

reading in the treble, bass and C clefs; major and minor scales; key signatures; and all intervals, triads and rhythmic notation.

MUSIC THEORY II

1 Credit
Grade 10-12 Level 2 Elective

Prerequisite: Pass Music Theory I with a C or higher or Instructor approval.

Using the information from Music Theory I, the student will apply transfer that information to part writing. Emphasis will be on triads and their inversions and writing harmonies. At the end of this course, the student will compose a hymn written for four part chorus and will teach it to the HS Concert Choir.

MUSIC THEORY III

1 Credit
Grade 11-12 Level 3 Elective

Prerequisite: Pass Music Theory II with a C or higher or Instructor approval.

This course is designed for the student contemplating future study in music education or performance. The student will continue with the part writing component and work into harmonic analysis. The content of this course will resemble the curriculum of first year Music Theory at most colleges.

MISCELLANEOUS

WORK STUDY

.125 Credit
Grade 11-12 Level 3 Elective

Prerequisite: Administrator Approval and Teacher Request

Students enrolled in work-study will be assigned to a teacher, custodian, cook or office. Their supervisor will use them for a variety of activities including working with younger students, designing bulletin boards, making photocopies, cleaning parts of the school, answering phones and many other tasks. Students enrolled in work study must exhibit responsibility and dependability in order to be considered for a work study position. Students will be required to submit weekly journals of their work-study experience. Teachers will be limited to one student they may supervise.

FRESHMAN SEMINAR

1 Credit
Grade 9 Required

Prerequisite: none

The central purpose of this quarter-long, required course is to extend students' reading abilities, master keyboarding skills, and to obtain essential research skills. The course focuses on one essential theme- "Overcoming Obstacles: Individuals Who Smashed the Status Quo." Students will encounter literary characters who smashed societal and interpersonal status quos; students will then conduct their own research to discover real-life individuals who overcame obstacles of their own. Students will utilize formatting and keyboarding skills in order to produce a cohesive and engaging research paper. Students will end the course with the creation of their Student Standards Portfolio, the beginning stages of a graduation requirement for their senior year.

SENIOR SEMINAR

1 Credit
Grade 12 Required

Prerequisite: Senior Year

Senior Seminar is a one-semester course designed to prepare students for 21st Century life and work after graduation. Students will explore searching for post-graduation opportunities and scholarship opportunities. Students will develop their Resume and Cover Letter, as well as their Application letters for post-secondary training and scholarships. Students will explore 10 Modules of Financial Literacy (Overview; Savings; Banking; Payment Types, interest rates, & Credit Cards; Credit Scores; Financing Higher Education; Renting vs. Owning; Insurance and Taxes; Consumer Fraud; and Investing).

DRIVER EDUCATION

Driver Education is a non-credit class offered to those people who qualify for enrollment. Classes are scheduled during the summer.

COURSES OFFERED in Other District

Courses Offered at West Harrison/Missouri Valley

Principles of Ag Animals
Intro to Vet
Survey of Animal Industry
Small Animal
Animal Production
Computer Science

Intro to Agronomy
Intro to Agriculture
Principles of Ag Plants
Advanced Ag Principles
Advanced Ag Projects

For descriptions and explanations on these courses please speak with your school counselor.

Edgenuity Course Guidelines

Students at Logan-Magnolia may be allowed and/or required to take classes through an internet-based service for various reasons. Those reasons include, but are not limited to, credit recovery, schedule conflicts, and student needs. Currently, Logan-Magnolia offers internet-based courses through a program titled Edgenuity. If a student is enrolled in an Edgenuity course for any reason the following guidelines will be followed:

1. Students must get a username and password from assigned school personnel.
2. Students must make adequate weekly progress in the course. If a student falls behind the adequate weekly progress, they will be placed on the academic noncompliance list and may lose flex schedule privileges that apply.
3. Students must successfully complete 100% of the course work by the end of the grading period.
 - a. Classes are closed at the end of the academic day on the last day of the semester. (i.e. If the day ends at 11:30, then that is considered the end of the academic day)
 - b. Second-semester seniors will be required to attend each day of school (full day) if course work is not completed upon seniors being released.
4. Students must successfully complete 100% of the course on time in order to receive credit for the course. Time extensions will only be granted for extenuating circumstances upon request to the high school principal.
5. Students will meet with the principal or their advisor weekly if they do not make adequate weekly progress.
6. If students have questions regarding the content, they will go to the specific content teacher (i.e. health, Mrs. Bruck; Algebra I, Ms. Lacey, etc.).

Student Signature

Date

Parent/Guardian Signature

Date

School Representative Signature

Date

NEW THIS YEAR

Iowa Western Community College Welding Certification Program

The Welding Certificate program prepares students to enter into the industry as beginning production, maintenance, or job shop welders. Students are trained in the latest techniques in fabrication of materials by welding processes. The Welding Certificate is designed to teach fundamental techniques and principles. The pathway also provides for an overview of related topics, such as metallurgy and fabrication, layout, estimating and repair.

| | Credits |
|---|---------|
| ● WEL 228: Introduction to Welding, Safety, and Health of Workers | 1.0 |
| ● WEL 233: Print Reading and Welding Symbol Interpretations | 3.0 |
| ● WEL 149: Arc Welding | 3.0 |
| ● WEL 256: Gas Metal Arc Welding | 4.5 |
| ● WEL 259: OXy-Acetylene Arc Welding | 1.0 |
| ● WEL192: Gas Tungsten Arc Welding | 4.0 |

Total Credit Hours
16.5

Computer Science offered in Missouri Valley

Course description is not yet available

Work-Based Learning (WBL)

1 Credit/Hour
Grade 12 Elective

Students will take part in a structured educational experience that integrates classroom learning initially to prepare students for placement and success in a work based learning situation off campus. This structured work experience can be paid or unpaid and will take place daily after initial classroom activity. This work experience will be focused in areas of interest for students and take place in a students desired program of study. Students will gain valuable employability, communication and workplace readiness skills and experience.

ADVANCED INSTRUMENTAL MUSIC

1 Credit
9-12 Elective Credit

Grade 9-12. Prerequisite - Must also be enrolled in High School Band, Director Approval Needed

Students enrolled in this class will primarily study and perform large ensemble jazz music. Extended practice in identifying and building chords is expected of each student. Additionally, students in this class will learn how to create short, improvised solos in a structured format while performing with the full ensemble. Required performances include any concerts and contests scheduled by the director prior to the course beginning. This class meets during 8th period in the spring semester, and further responsibilities include performing for recruitment events with the elementary music students. Rehearsals for this ensemble will begin in October from 7:20am to 8:00am as scheduled.