Laingsburg High School

Curriculum Guide 2015-2017

8008 Woodbury Road
Laingsburg, MI 48848
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Superintendent - Matthew Shastal
Principal - Brian Doepker
Athletic Director - Randy Bowles

Home of the Wolfpack

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Nondiscrimination Policy

It is the policy of the Laingsburg Community Schools that no person shall, on the basis of race, color, national origin, sex or handicap, be excluded from participation in, be denied benefits of, or be subjected to discrimination during any program or activity or in employment. Any questions concerning Title IX of the Education Amendments of 1972 (which prohibits discrimination on the basis of sex), or Section 504 of the Rehabilitation Act of 1973 (which prohibits discrimination on the basis of sex), or Section 504 of the Rehabilitation Act of 1973 (which prohibits discrimination on the basis f handicap) should be directed to: Mr. Matt Shastal of Laingsburg Community Schools, 517-651-2705 or Tammy Babinski for 504 Coordinator questions, 517-651-5091.

Home of the Wolfpack

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Graduation Requirements

The State of Michigan and the Laingsburg Board of Education have approved the graduation requirements for students receiving a diploma from Laingsburg High School.

Twenty-two (22) credits are required to graduate. One-half (.5) credit is earned for each semester of a course a student successfully completes and earns a passing grade, except for specific CTE Course offerings (see course descriptions).Credit is not earned for grades of F, E, WF, WP, NC, or I.

Public Act 335 requires high schools to provide students with the opportunity to receive credit for exhibiting a reasonable level of mastery of the subject matter of a course by achieving a C+ (77%) or better on a competency test. Competency testing is done in November. Instruction and applications are available in the Guidance Office. Completed applications must be submitted prior to the first Friday of November.

To graduate and be awarded a diploma at commencement, all credit requirements must be met prior to commencement.

1. The Board of Education will not permit seniors who have not completed all credit requirements to participate in commencement.
2. A senior deficient in credits will be granted a diploma when the deficiency is made up prior to the start of the next school year in an approved summer school or community/adult/alternative educational program, providing;
    a. The total number of credits earned outside the day school curriculum does not exceed 4 credits.
    b. Prior approval is granted by the principal.

Class Schedule

Schedule with A Lunch	Schedule with B Lunch
1st Hour 7:51 - 8:50	1st Hour 7:51 - 8:50
2nd Hour 8:55 - 9:54	2nd Hour 8:55 - 9:54
3rd Hour 9:59 - 10:59	3rd Hour 9:59 - 10:59
Lunch 11:04 - 11:34	4th Hour 11:04 - 12:02
4th Hour 11:34 - 12:32	Lunch 12:07 - 12:36
5th Hour 12:36 - 1:40	5th Hour 12:36 - 1:40
6th Hour 1:45 - 2:43	6th Hour 1:45 - 2:43

LAIGNSBURG HIGH SCHOOL & MICHIGAN MERIT CURRICULUM
GRADUATION REQUIREMENTS

SUBJECT	REQUIRED CREDITS
Introduction to Literature American Literature World Literature or AP English Language Modern Literature, Senior Writing, or AP English Literature **OR** Completion of Marketing & VEI (1 ELA Credit)	1 1 1 1
Algebra 1 Geometry Algebra 2 1 Additional Credit Senior Year (Pre-Calculus, AP Calculus, Conservation, or Accounting)	1 1 1 1
Biology or AFNR Biology Chemistry, Physics, Anatomy, Conservation, or Applied Physics 1 Additional Credit (AP Biology, Human Anatomy & Physiology, Veterinary Science, Conservation of Natural Resources or AFNR Systems)	1 1 1
US History with Geography World History with Geography Government (1 semester) Economics (1 semester) **OR** Marketing (1 year-Includes .5 ELA)	1 1 .5 .5
Physical Education or Personal Conditioning Health	.5 .5
Foreign Language (2 Years) OR Foreign Language (1 year) & Completion of a CTE Program	2
Visual, Performing and Applied Arts (Band, Communications, Vet Science, Virtual Enterprises International, & Video)	1
Electives	4
Total To Graduate	**22**

Course Information

Advanced Placement Classes

Advanced Placement (AP) courses provide students with the opportunity to take college level courses at Laingsburg High School taught by Laingsburg High School teachers. Students benefit by taking advanced placement courses as they can earn college credit at a much lower cost while still in high school. Laingsburg High School offers a variety of advanced placement courses including English Language, English Literature, Calculus, Biology, and World History. Students may not add or drop AP classes once enrolled and classes begin. AP courses should be indicated in the student's course requests when planning for the upcoming school year.

Schedule Change

Students and parents/guardians should understand that classes are planned and teacher schedules developed on the basis of subjects selected by students and approved by parent/guardian during class registration. Once completed, changes to a student's schedule will require parent and administrative approval. Changes must be for academic/graduation requirements. The change MUST occur no later than one full school day prior to the start of a new semester. A student's schedule will not be changed unless the student fails a class and needs to repeat the class, the student lacks the proper prerequisite, or a computer scheduling error has occurred.

Dual Enrollment

Dual Enrollment is offered by Laingsburg High School in accordance with state legislation.

Students may dually enroll in a postsecondary institution or career and technical preparation program if they are enrolled in at least one high school class. The definition of eligible student also requires that the student have at least one parent or legal guardian who is a resident of the State of Michigan.

A district is not permitted to pay for more than 10 total dual enrollment courses for any one student. If a student first dually enrolls in the 9th grade, that student may not take more than two dual enrollment courses per year for the student's 9th, 10th, and 11th grade years and not more than four dual enrollment courses in the student's 12th grade year. If the student first dually enrolls in the 10th grade, the student may not take more than two dual enrollment courses in the 10th grade and not more than four dual enrollment courses in the 11th and 12th grades. If the student first dually enrolls in grades 11 or 12, the student may not take more than six dual enrollment courses in either 11th or 12th grade.

Students who do not complete a dual enrollment course must repay tuition to the district. This requirement exempts students who were unable to complete a dual enrollment course due to a family or medical emergency.

To qualify for dual enrollment, student must achieve a qualifying score on the required student assessment exam.

Students should complete the dual enrollment application form and get approval from the high school principal. Once the student has obtained a qualifying score and approval from the principal, these guidelines will be used:

a. The student is responsible to locate an acceptable course.

b. Application and admission to the post-secondary institution are the responsibility of the student.

c. Upon validation from the issuing post-secondary institution, the student's credit and grade will be recorded on the student's high school transcript. The grade earned by the student shall not be included in the computation of the student's grade point average or class rank.

d. The student is responsible to ensure the post-secondary institution reports the student's grade and credit to the high school principal in a timely manner.

e. Tuition for the course will be paid by the school district upon receiving a bill from the post-secondary institution itemizing the charges for the student's participation in a particular course, up to a certain amount.

f. Credit may be used for high school or college, but not for both.

Assessment	Test Section	Content Area	Minimum Dual Enrollment Qualifying Score
PSAT	Critical Reading Writing Skills Mathematics	Reading Writing Mathematics	44 49 45
PLAN	Mathematics Reading Science English	Mathematics Reading Science English	18 17 19 21
ACT	Mathematics Reading Science English	Mathematics Reading Science English	18 17 19 21
MME	Reading Writing Mathematics Science Social Studies	Reading Writing Mathematics Science Social Studies	1100 1100 1100 1100 1100

Work Based Learning

Educational experiences are incorporated into practical, on-the-job training through the cooperation of businesses and employers. The training must provide for the learning and development of skills for a vocation or occupation.

** Students are limited to a maximum of two semesters at one hour per semester of work based learning.
** The student must have at least junior class status.
** The student must complete a work-study application. Applications are available from the counselor or principal.
** The student must take at least one course related to the practical experience.
** The student's application must be approved by the principal or counselor.
** Students or their parents are responsible for providing transportation to the work site.
** Loss/termination of employment may cause loss of credit.

Career Pathways

The Laingsburg High School curriculum is designed to offer students a pathway to success. As students enroll in school, they will select a career pathway designed to explore and meet their academic potential and career interest. The pathway selection will provide a focus, and foundation, for the student's learning experiences.

Students develop a four-year high school Educational Development Plan (EDP) that will maximize their post-high school potential and opportunities. Through an applied academic instructional program, all students will begin to identify and value the relationship between their academic studies and real world applications. Students will continue to meet with their counselor throughout high school to review their progress toward achieving their goals and to further refine or modify their academic career plans.

Career Cruising is the program used by all students to prepare and update their individual four-year educational plans. The four-year planning process begins during the 8th grade and is reviewed and updated annually.

Academic Requirements for College Athletics

Students must register with the National Collegiate Athletic Association (NCAA) during the senior year if planning to participate in athletics at the Division I/II level. To learn more, go the NCAA website: www.NCAAclearinghouse.com.

The ACT score used for NCAA purposes is a sum of the four sections on the ACT: English, math, reading, and science. NCAA requires that all SAT and ACT scores be reported directly to the NCAA Initial-Eligibility Clearinghouse by the testing agency. Test scores that appear on transcripts cannot be used. When registering for the SAT or ACT, use the clearinghouse code of 9999 to make sure the score is reported to the clearinghouse. In addition, the NCAA requires the following:

Division I - 16 Core-Course Rule

4 years English
4 years Math (Algebra 1 or higher)
2 years Natural/Physical Science (1 year of lab if offered by the high school)
1 year additional English, Math, or Natural/Physical Science
2 years Social Studies
4 years additional courses (from any area above, foreign language, or religion/philosophy)

Division II - 14 Core-Course Rule
3 years English
2 years Math (Algebra 1 or higher)
2 years Natural/Physical Science (1 year lab if offered by the high school)
2 years additional English, Math, or Natural/Physical Science
2 years Social Studies
3 years additional courses (from any area above, foreign language or religion/philosophy)

Scholarships / Financial Aid

Seniors may be eligible for local, state, federal, and other scholarships to support their post-secondary education. Information and applications are available in the Guidance Office and Wolf News announcements provide up-to-date information throughout the school year. A financial aid workshop is held in January to help students and parents prepare the Free Application for Federal Student Aid (FAFSA). Parents are encouraged to attend the workshop to learn about the FAFSA and the requirements for completing the form. All students/parents should complete the FAFSA regardless of their need for financial aid. All applications are completed online at www.fafsa.gov.

Student Assessments

Student assessments are scheduled throughout the year to validate student learning in various subject areas. In addition to examinations for regular coursework, students also participate in state-mandated assessments. Students are most often required to take college entrance exams prior to making application to post-secondary institutions. Some of these exams are not part of the district's assessment process and are the responsibility of the student to schedule and pay for.

Grade 9	Grade 10	Grade 11	Grade 12
Michigan Educational Assessment Program (MEAP) Social Studies (required) PLAN - Pre ACT (required)	PLAN - Pre ACT (required)	Preliminary SAT / National Merit Scholar-ship Qualifying Test (PSAT/NMSQT) (held in the fall/optional) Michigan Merit Exam (MME) (required for all juniors and includes an ACT Test) Scholastic Aptitude Test (SAT) (optional and students register on their own)	ACT (retake - students register on their own if they desire) SAT (retake - students register on their own if they desire)

Course Options

Language Arts

Introduction to Literature 1.0 Credit 9-10
This course is introductory and preparatory in nature. Students will read a selection of short stories, poems, essays, plays and novels, and study the literary terms associated with each form. Students will learn the skills necessary to write simple paragraphs and the basic essay. Students will review basic grammar rules.

American Literature 1.0 Credit 10-11
This course will concentrate on American literature from colonial days to the present. Also included are grammar, vocabulary study, and practice in expository writing. Students will take part in discussions as well as preparing and delivering short presentations.

World Literature 1.0 Credit 11-12
This is a year-long course of study with an emphasis on world literature selections taken from the textbook, various novels, plays, poetry, and epics. This class also focuses on writing expository and persuasive essays.

AP English Language 1.0 Credit 11
The AP English Language and Composition course is designed to give students an opportunity to immerse themselves in language. The focus is on rhetoric, the art of communication and persuasion. Students will engage in close reading of texts, particularly non-fiction, and will be writing in a variety of forms. Texts will be memoirs, expository writings, analytical essays, personal accounts, letters, speeches, etc. They will also include the analysis of visual sources. Authors studied will include, but is not limited to David Sedans, Maxine Hong Kingston, Susan Sontag, Annie Dillard, Francis Bacon, Virginia Woolf, Jonathan Swift, Henry David Thoreau, Chinua Achebe, H.L. Mencken, Pico Eyer, Lars Eighner, John Berendt, Anne Frank, John Hersey, Mark Mathabane, Honore de Blazac, Jorges Borges, Isabel Allende.

AP English Literature 1.0 Credit 12
AP English Literature is an accelerated study in literature and also offers practice in writing. Students must read American and European literature, such as Thoreau, Moliere and Tolstoy. They will read novels, plays, short stories and poetry. These works will be the basis for the writing of critical papers and summaries.

Modern Literature 1.0 Credit 12
This course will focus on the human experience through literature. The novels have been selected to engage and challenge students with a variety of social issues: i.e. race, religion, gender, and culture. Students will be exposed to the realm of fantasy and science fiction. The class will contain discussion, research, oral presentations, written work, quizzes, and tests.

Senior Writing 1.0 Credit 12
This course provides students with diverse experience in written communication. Creative endeavors may include narrative, character sketches, dialogues, descriptive passages, humor, etc. Practical writings may include paraphrasing, letters, how-to-explanations and journalism. The writing process, especially revision will be emphasized. Real audiences and publications will be stressed. *The Senior Portfolio and Senior Project is a requirement of this class.*

Writing for Publication 1.0 Credit 9-12

This class will publish the high school newspaper, yearbook, and literary magazine. Other publications such as graduation programs and play programs will be special projects. The class will be concerned with writing skills in journalistic copy, with organizational and computer skills in layout and design, business skills in balancing books, selling ads and meeting deadline responsibilities. Publication laws, censorship and student responsibility will also be addressed. Photographers are required to take the basic introduction to photo processing before being selected for this position. Students may be selected to take the course for more than one year and accept the responsibility of a major editorial position. Any student selected will have section responsibilities for the yearbook and newspaper with several students under their supervision. Substantial after-school work is required as part of this program.

Speech .5 Credit 9-12

This course will help the student to become comfortable speaking to large and small groups. The first nine weeks will be dedicated to human communication and public speaking. The second nine weeks will focus on debate: research, public speaking, and argumentation.

Drama .5 Credit 9-12

This course is designed to familiarize each student with the theory and history of the dramatic arts. There will be lecture, discussion, reading, analysis, and beginning performance in this class.

Debate .5 Credit 9-12

Students will learn the skills of research and argument. The class will discuss many topics and issues. Students will learn to see issues from various viewpoints and to be able to discuss topics regardless of personal feelings. Students will research, write, and present an argument on an assigned topic. The annual national debate topic will be the main focus of research. Students will be encouraged to compete at local and state levels in order to learn the true nature of debate. Students may take this course multiple times with instructor approval. Debate is great preparation for higher education.

Communication Arts .5 Credit 9-12

This class is a semester program of study into the world of debate, theatre, and speech. Along with public speaking, the areas of research, writing and communication will be emphasized and practiced.

Mathematics

PreAlgebra 1.0 Credit 9

This course is designed to meet the common core standards for Pre-Algebra. The focus of this course is: Basic Operations with Real Numbers, Equations, Inequalities, Functions, Polynomials, Introduction to Geometry, and Data Analysis.

Algebra 1 1.0 Credit 9-10

This course consists of basic concepts of Algebra including topics such as: solving one step and multi-step equations and inequalities, graphing, slopes and lines, exponents, multiplying and factoring polynomials, quadratic equations, functions, and linear systems. A TI-84 Plus graphing calculator is recommended.

Geometry 1.0 Credit 9-11
This course will study geometrical figures and their properties. First semester focuses on the fundamentals of deductive reasoning and proofs, covering topics such as: congruent figures, triangle properties, and quadrilateral properties. Second semester focuses on the algebraic concepts of perimeter, area, and volume of two-dimensional and three-dimensional figures. A scientific calculator is strongly suggested, especially for second semester.
Prerequisite-Algebra I

Algebra 2 1.0 Credit 10-12
This course extends the concepts of Algebra 1 to focus on properties of linear, quadratic, and higher-order functions, direct and inverse variation models, and solving multi-step equations and inequalities. Students will also study the properties of exponential, logarithmic, and trigonometric functions.
Prerequisite-Algebra I

Pre-Calculus 1.0 Credit 11-12
This course consists of the following concepts: coordinate geometry, polynomials, inequalities, functions, exponents, logarithms, trigonometric formulas, advanced graphing, complex numbers and topics in pre-calculus. Probability and statistics concepts are also covered during this course.

AP Calculus 1.0 Credit 12
A full year of work in calculus comparable to semester course in colleges and universities. This course is intended to provide an opportunity for high school students to receive college credit and/or placement for a course normally taken at the freshman or sophomore level.
Prerequisite-Pre-Calculus

Financial Math .5 Credit 11-12
This course is an introductory course that will explore business and personal finances. This class serves as a foundation for students to learn how to be literate consumers while using their knowledge of decimals, percents, whole numbers, interest and basic statistics in the context of real life situations.

Business

A program completer requires a student to complete all segments/standards within a state CTE program with a minimum of a 2.0 GPA

Marketing completer: Marketing and VEI courses
Finance completer: Accounting I and VEI Accounting courses

Marketing I 1.5 Credit* 10-12
Marketing I is an experience and project based business class. The students will learn the different aspects of marketing a product. Selling, promotion, risk management, pricing, purchasing, distribution, product planning, financing and how to start up your own business. The Laingsburg School Store, will be used as a classroom lab. The student will leave the class with a completed marketing portfolio. All students can benefit from the material covered in this class. Related career interests include, but are not limited to: Entrepreneurship, Marketing, Psychology, Business Management, Hospitality, Human Resources, and more. Students in this class are encouraged to compete in DECA Marketing Club. *Lansing Community College, Ferris State University and Mott Community College credit is available in this course. (*.5 Credit awarded upon completion of Marketing Program)*

School Store Manager 1.0 Credit 11-12

School Store is an experience based class. The classroom activities will include training in the areas of advertising, retail, communication, human relations, mathematics, selling and cash handling. A portion of the overall grade will be achieved through work in the School Store. Students taking this class must have taken or also be enrolled in Marketing I or Accounting. School Store Managers make critical decisions in product offerings, pricing, merchandising, and customer service policies affecting the success of the school. Managers are responsible for the financial success of the store

Prerequisite/Dual Enrollment: Marketing I/Accounting

Accounting I 1.5 Credit* 10-12

Are you thinking about a business major in college? Get your accounting foundation here.

Accounting is an essential course for all students to either explore a career in business or for one's personal financial needs. It is required in any business major in college. This course covers the complete accounting cycle for a proprietorship and merchandising business, along with journalizing and posting transactions. Special journals, worksheets, income statements, balance sheets, and other financial statements are also taught. The use of computers to teach automated accounting simulations is a large portion of this course. *Lansing Community College, and Mott Community College credit is available in this course. (*.5 Credit awarded upon completion of Finance Program)*

VEI Marketing & Accounting 1.5 Credit* 11-12

Would you like to go to work rather than class? It does not get more hands on than this class. Students in VEI apply to positions within a student created business. Departments in the firm include: Accounting, Sales, Purchasing, Human Resources, Marketing, and Chiefs. The VEI class creates a business plan; employees apply to their positions; and as customers, trade products with other virtual firms around the globe. Students will experience competitions and have the opportunity to travel to trade shows in others states (Tennessee, Illinois, California, New York). Leadership opportunities and experiential learning abound in this class. Students in this class are equipped with a strong work ethic and independent accountability, as much of the class is student driven by the Chief positions in the firm. Students wishing to use this class as a senior year math credit must apply to the Accounting Department.*Lansing Community College, Ferris State University and Mott Community College credit is available in this course.*

Prerequisite/Dual Enrollment: Marketing or Accounting I (.5 Credit awarded upon completion of Marketing or Finance Program)*

Science

A program completer requires a student to complete all segments/standards within a state CTE program with a minimum of a 2.0 GPA

AFNR completer: AFNR Biology and Conservation of Natural Resources

Biology 1.0 Credit 9-10

This course examines the major objectives for Life Science, such as cells, living things, heredity, evolution, and ecosystems. The course material will be delivered through lectures, class discussions, labs and projects. The goal for the instructors is to allow students to witness the interconnecting relationships between all living things.

AFNR Biology 1.5 Credit* 9-10

Agriculture Biology is a one year laboratory science course. Using agriculture as the learning vehicle, the course emphasizes the principles, central concepts and inter-relationships among the following topics: the molecular and cellular aspects of life, the chemical and structural basis of life, growth and reproduction in plants and animals, evolution of modern plants and domestic livestock species, plant and animal genetics, taxonomy of modern agricultural plants and animals, animal behavior, ecological relationships among plants, animals, humans and the environment, nutrition in animals, health and diseases in animals, and the similarities between animals and humans. This course is centered on an extensive laboratory component in order to connect the ideas of life science with agricultural applications, earth and physical science principals, and other curricular areas, including written and oral reporting skills. *Baker College and Davenport College credit is available in this course. Michigan State University offers 6 credits upon completion of this program and an FFA State Degree (*.5 Credit awarded upon completion of AFNR Program)*

Human Anatomy & Physiology 1.0 Credit 10-12

This course covers the eleven major systems in the human body. Each unit examines the macroscopic and microscopic building blocks of each system. During the first semester we will examine basic nomenclature, the skeletal system, the muscular system, and the nervous system. In the second semester we will study the endocrine system, digestive system, cardiovascular system, reproductive, and excretory systems.

Chemistry 1.0 Credit 10-11

Chemistry is the study of matter. Included are the following topics: relationship between matter and energy, measurements and problem solving skills, atomic structure, chemical names, formulas, chemical reactions, stoichiometry, states of matter, chemical periodicity, bonding, solutions, and acids and bases. Students taking this course must have completed or be currently taking Algebra 2.

Applied Physics 1.0 Credit 10-11

Applied Physics will focus primarily on the study of motion, forces, energy, and waves. The students will spend several hours each week in the lab performing hands on experiments to enhance the learning potential of this class. The overall goal of the course is for students to gain insight into the inner-workings of our physical world.

Physics 1.0 Credit 10-12

The study of the relationships that exist between matter an energy including: Measurement, linear motion, gravity, forces, two-dimensional and periodic motion, conservation of energy, momentum, heat measurements, wave properties, nature of light, electric circuits, magnetic, nuclear reactions.

AP Physics 1.0 Credit 11-12

This is a course designed to satisfy the physics graduation requirement through instruction of all the state core physics objectives. While some math is involved, this class stresses the understanding of concepts and involves as much hands-on application as possible.

AP Biology 1.0 Credit 11-12

AP Biology is a first year biology major college level course. Themes in this AP Biology course include science as a process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence in nature, and science, technology, and nature. These themes will reappear throughout the following topics: molecules and cells, heredity and evolution, and organisms and populations. Time restraints prevent every aspect of each topic to be covered in class, so students will be required to do some reading and learning of those topics outside of school. This course also has a lab component, which corresponds to topics covered in class. Students are expected to spend more time reading outside of class and understanding the

themes and topics enough to support them with facts. Students may take the AP Biology College Board Exam in the spring to earn college credit. *Prerequisite-Biology or AFNR Biology*

Conservation of Natural Resources 1.5 Credit* 10-12

If you appreciate the outdoors and enjoy using natural resources (hunting, fishing, hiking, camping and wildlife viewing) this class will provide a better understanding of our local natural resources and the need to conserve them for future generations. This course is designed to provide students a background in the field of natural resources and its many career opportunities. Students will be involved with hands-on projects investigating soil erosion, water pollution, wildlife management, forestry production, land management and the effects of management practices on the environment. Students will also explore soil conservation practices, water and its importance to natural resource management, hazardous waste management, native wildlife, waterfowl, fish, wetlands, and pond management, management of recreational areas, and outdoor safety. "Hands-on" learning activities like Salmon in the Classroom and school recycling encourage students to investigate areas of environmental concern including: identification and management of ecosystems, management of waste, chemicals and environment, soil conservation, land uses, regulations and ordinances, water quality and air quality. *Baker College, and Davenport College credit is available in this course. Michigan State University offers 6 credits upon completion of this program and an FFA State Degree (*.5 Credit awarded upon completion of AFNR Program) Prerequisite-Biology or AFNR Biology*

Agriculture, Food, & Natural Resource Systems 1.0 Credit 11-12

This course deals with the nature and extent of systems in agriculture, food, and natural resources applying the physical, scientific principles, and underlying sound practices in these systems. This course requires students to complete project based work independently and participate in a supervised agriculture experience in career fields pertaining to these systems. *Prerequisite-Must have completed the AFNR CTE program.*

Veterinary Science and Animal Health 1.0 Credit 11-12

This year long course specializes in developing knowledge and skills pertaining to the identification, nutrition, reproduction, health, diseases, veterinary science, care and management of food and companion animals, both small and large. This class has a lab component which corresponds with topics covered in class. Classroom and animal laboratory activities are an integral part of this program, including the safe use and care of animal health-care instruments, animal grooming equipment, basic tools, animal restraining equipment, and field equipment. This program works with small animals from canines and felines as well as rabbits, poultry and large animals including swine, goats and sheep. *Prerequisite-AFNR Biology and Conservation or dual enrollment in Vet Science and Conservation. Baker College and Davenport College credit is available in this course.*

Robotic Programming 1.0 Credit 9-12

Robotic Programming will focus on designing, building, and programming stand-alone robots. The students will first design and build a robot as a solution to a specific challenge. The robot will be programmed using ROBOTC language to accept sensory inputs, analyze the data, and perform various tasks based on the data.

Social Studies

US History with Geography 1.0 Credit 9-10
The content of this course will cover mostly 20th Century American History. Students will sharpen their skills in processing and evaluating information, understanding the core democratic values, analysis of historical trends, discriminate between theory and practice, and improve their decision-making skills. A geography component will be added.

World History with Geography 1.0 Credit 10-11
This course will include western and non-western history and geography and cultures. Using a regional approach, the history and geography will serve as a basis for global issues. Students will develop problem-solving skills, learn to collect, analyze and interpret information. Students will be involved in active participatory attempts to solve current social problems.

Government .5 Credit 11-12
Government will deal with the structure and nature of our federal, state, and local governments. Special attention will be given to assignments and activities designed to help students prepare for standardized testing in the social studies area.

Economics (or Marketing 1 Credit) .5 Credit 11-12
Economic theory as applied to real life situations will be covered along with national and international economics. Special attention will be given to preparing students for standardized testing in the social studies area.

Psychology .5 Credit 11-12
This course will cover psychological methods, human development, understanding and measuring personality, measuring intelligence, learning, motivation, frustration, causes and cures of personality disorders. Special attention is given to teenage suicide.

Sociology .5 Credit 11-12
This course will cover norms, roles, socialization, and the institution of family, education, religion,, economy and government. Social stratification and social change is also covered. There is some exposure to other cultures with the goal of increasing the students' scientific objectivity.

History of Germany .5 Credit 10-12
Students who are traveling to Germany will learn the history of Germany from its earliest foundations with the Vandals to the present day German nation. The study will include the major individuals and their historical importance. In addition there will be how the language, cultural and political ideas affect the history.

AP World History 1.0 Credit 10-12
Students will be studying primary and secondary source from the Paleolithic age to today. The course will study history of the entire world. Students will learn how to write documents based, comparative history, and change over time questions. There is a map text as well as a history text. Students will be expected to know the geographic location of important historical events. Students will be preparing for the advanced placement exam in May.

History via Media .5 Credit 11-12

This course will study history, primarily American History, using Hollywood cinema as the guide. Chapters will be movies. Students will be responsible for watching the films, analyzing its historical content, and completing assignment. Some of the material that will be viewed in the movies will be adult in nature. In this class we take the story and apply it to the broader perspective of history. Parent approval required.

Sports in American History .5 Credit 10-12

This course is an elective that focuses on educating young people about the role of sports in America, especially how it has influenced history. We will touch on an element of Sport Sociology and some basics of economics. this class should propel those that enjoy sports to learn more about 20th century American History, become better writers, and even find more enjoyment and excitement in reading.

Foreign Language

The study of a foreign language is capable of exerting a profound influence on our perceptions of the world and of permanently enriching our understanding of ourselves and others. Language is the medium by which human beings think and by which they express their thoughts. The study of any language is therefore the study of everything that pertains to human nature. The acquisition of a language other than our own enables us to communicate, to look beyond customary borders and to participate more fully in the global community. When we study another language we:

- Develop insight into our own language and culture
- Increase our awareness of self and our relationship to others
- Gain direct access to additional bodies of knowledge
- Develop and enhance our higher order thinking skills

Guiding principles:

- Communication: To communicate in other language other than English
- Cultures: Gain knowledge and understanding of other cultures
- Connections: Connect with other disciplines and acquire information
- Comparison: Develop insights into the nature of the language and culture
- Communities: Participate in multicultural communities at home and around the world

Spanish I 1.0 Credit 9-12

This introductory course is designed for students with little or no previous study of Spanish. Some students in class might have studied Spanish in middle school, but have not grasped some of the important structures of the language. This course teaches basic language patterns and vocabulary. Repetition and comprehensible input are important components of this course. Focus is on all four language skills, listening, speaking, reading and writing. Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. In addition to written tests and quizzes, students may also be assessed by means of aural activities. Homework assignments are an integral part of this course; they reinforce concepts/skills introduced and explored in class, which enable students to participate in class in a meaningful way. Completion of homework assignments is a must. Active participation is required.

Spanish II 1.0 Credit 9-12

In Spanish II, we will continue our study of Spanish by building upon, strengthening, and reinforcing the skills in the six core areas: listening, speaking, reading, writing, grammar, and vocabulary. We will continue to seek out an authentic and extensive understanding of the varied cultures and customs of the Spanish-speaking world. The second level course will continue to focus on the

building of a strong foundation of the basic concepts inherent in the language, and will provide students with opportunities to deepen their practical understanding of the language through individual and group projects. Some topics of study in this course will include: stem-changing verbs, simple future and past verb tenses, adjective agreement, and vocabulary acquisition.

Spanish III 1.0 Credit 10-12
This course will further develop the communicative competency of each student. Spanish III students will be adding specific vocabulary and reviewing grammar as presented in the literary works and responding to those in both oral and written form.

French I (Interactive Television) 1.0 Credit 9-12
A SITES class with limited enrollment, French I is a basic introduction to the French language and culture. This class is designed for students with little or no knowledge of French. Students are introduced to basic patterns and structures of French, enabling them to develop listening, speaking, reading, and writing skill. Emphasis is placed on contemporary vocabulary, essentials of grammar, and pronunciation. Because this class is taught via distance learning, LHS must pay tuition for each student. No student will be allowed to drop the course. Madame Yonkman is the instructor for this course and teaches from the Morrice High School SITES classroom. LHS students will also be considered students of Morrice High School and follow MHS policies and calendar.

French II (Interactive Television) 1.0 Credit 10-12
French II SITES class with limited enrollment is a continuation of the previous French experience. Students will continue to strengthen their foreign language proficiency in the four skills of listening, speaking, reading, and writing. The materials throughout the course integrate culture, grammatical structures, vocabulary, oral and written activities, and dialogues. Because this class is taught via distance learning (SITES), LHS must pay tuition for each student. No student will be allowed to drop the course. Madame Yonkman is the instructor for this course and teaches from the Morrice High School SITES classroom LHS students will also be considered students of Morrice High School and follow MHS policies and calendar.

Technology

Visual Communications 1.0 Credit 9-12
A yearlong class in which students will learn both the technical elements and the communication skills for developing quality video news and features. Students will learn the use of a mixer, various computer programs, camcorders and computer editing. Students will have the opportunity to obtain vocational certification or college credit. Significant video projects and videotaping for all students will be required beyond class time.

Media Communications .5 Credit 9-12
This class teaches visual communication. There will be four areas of emphasis: 35mm camera, black and white darkroom techniques, design and computer photo manipulation. Students will concentrate on using a combination of photography and computer programs. Students will have the opportunity to do independent projects.

Applied Technology .5 Credit 9-12
Students will improve word processing skills along with basic database, draw and spreadsheet functions. Students will also learn how to import graphics into their documents from a digital camera and a scanner. Students will learn these programs: Microsoft Word, Power Point,, Window Moviemaker, and Publishing. The student will learn word processing, database, spreadsheets, slide shows, and web design.

Web Design .5 Credit 9-12
A semester long course in which students will learn the rules of design for visual communication. Students will be required to become proficient in the use of Dreamweaver, Flash and Adobe Photoshop. Students will be required to create a web page for the school district and one of r a commercial or non-profit corporation.

S.W.A.T. Students Willing to Assist with Technology .5 Credit 9-12
Students in this class will learn the basics of computers being used in the district. They will learn simple repair method and what common problems that teachers and students have with computers. Part of the student duties will be to create instructional videos, which will be uploaded to the server for teacher and student assistance. Students will also teach some classes they will be acquainted with the System Preferences for Snow Leopard. Opportunities to help students and teachers will be assigned during second term. All kinds of media equipment will be introduced during the class from 35mm digital cameras, video cameras, tripods, screen recording and audio recording. This is a hands-on class.

Physical Education and Health

Health & Living Skills .5 Credit 9-12
This course focuses on health habits that are basic to survival and that also contributes to the total well-being of the individual. The course follows the State of Michigan Model for Health Curriculum. The topics covered are: disease prevention and control, personal health practices, nutrition, growth and development, family health, emotional and mental health, substance use and abuse, consumer health, safety and first aid, and community health.

Physical Education .5 Credit 9-12
This course will emphasize the development of advanced skills and knowledge in various sports, including basketball, volleyball, soccer, speedball, touch football, pickle ball, badminton, softball, and other agility games.

Personal Conditionaing .5 Credit 9-12
The course is designed to help the student develop and maintain a level of physical fitness in the areas of strength, muscular endurance, core stability, flexibility and cardiovascular efficiency. This is a physically rigorous course. You must be willing to work hard consistently to succeed. Register only if you are willing to dedicate yourself.

Music

Band 1.0 Credit 9-12
This is the major instrumental performance ensemble of the school. It includes concert band and the Wolfpack Marching Band. It involves performance of a wide variety of music in parades, concerts, and festivals, both locally and out of town. Students taking this course must have a least three years prior band experience, or successfully audition for and interview with the Band Director. Band camp is required. The Band Director must approve exceptions.

Jazz Band 1.0 Credit 9-12
This class is a limited-instrumentation, performance-based ensemble for students who are looking for something in addition to band. Students must be enrolled in band to participate, with the possible exception of guitar, bass and piano. Students will study and perform several pieces of music in various jazz styles throughout the year. Students may be required to audition to get into the class if there are too many enrolled to meet the needs of limited-instrumentation. Students will be required to listen to both live jazz and recorded jazz and must be willing to learn jazz improvisation.

Other

Academic Enrichment 1.0 Credit 9-12
This class offers students the strategies to effectively transform dependent learners into independent learners. Students will discover new and exciting material that will help lead to success in high school. Topics of study will include ways to remember information, reading and taking notes in classrooms and textbooks, effectively using web resources to locate information, interpreting visual aids, preparing for and taking tests, and using their time effectively.

Work Study 3.0 Credits 11-12
Students have the opportunity to work (paid or unpaid) at a job corresponding and related to their career pathway and career interest. Students must complete forms and time sheets as well as work an average of 10 hours per week. Students must provide their own transportation to and from their place of work.

Career & Technical Education

Clinton County RESA - Career Connections

Allied Health 3.0 Credits 12
This course is designed to present and explore basic concepts of the human biological sciences in anatomy, physiology, and pathology and career exploration. Basic physical science, medical terminology, and other fundamental concepts of human health are also included. This course utilizes in-class education and training sessions, lab sessions, and field trips aimed at preparing individuals for careers in health care.

Auto Service 3.0 Credits 12
This vocational course is designed to provide an opportunity for students to learn the entry-level skills needed for entering many automotive industry careers. The classes in this program provide students the information necessary to pass some of the state mechanic's certification tests. The curriculum is a student-paced curriculum, which allows students to complete unity at their own speed. Course may include Service Station Technician, Brake Technician, Alignment and Suspension Technician, Electrical/Electronic Systems Technician, and Engine Performance.

Business Management & Entrepreneurship 3.0 Credits 12
This course will introduce students to the world of entrepreneurs and their role in the economy. First semester students will collaborate to write a business plan that will be used to finance a business the class will open, run and manage during the course of the year. Students in this course will also assist with the operation and management of running a coffee shop located at DeWitt High School. Along with running two businesses, students will have the opportunity to write a business plan for an innovative idea of their own. Second semester of this course will offer each student an opportunity to work as an intern in a business related to their career pathway.

Construction Trades 3.0 Credits 12
This course will be taught using a combination of presentations both in the laboratory and on the job site. Lumber industry careers, blueprint reading, estimating, and safety will be covered. Students will become acquainted with the procedures for purchasing land, developing sites, securing utilities, hiring contractors, securing permits, building procedures and project closeout. Students will be exposed to blueprint reading, estimating and ordering materials, and installing materials according to codes and specifications.

Criminal Justice 3.0 Credits 12

The Clinton County Criminal Justice/Corrections Program introduces high school students to the criminal justice system, the county and state corrections system and the juvenile justice system. Jobs in this pathway include police officer, county or state corrections officer, probation and parole officer, and juvenile justice worker. Field trips, on-sight work placements, and classroom presenters will be scheduled after students have a sufficient knowledge of the criminal justice system. Students will also be exposed to various elements of the LCC Police Academy and Department of Corrections, Corrections Officer Training programs.

Digital Media Arts 3.0 Credits 12

This course is an integration of Video Production, Audio Production and Digital Media Production. Students will receive extensive hands-on experience in all facets of video production both in studio and in the field. The class contains a broadcast journalism unit featuring TV Newscasts using a professional broadcast TV news set. The course will also emphasize the creation of audio projects, including news features, dramatic work, and music. Students will also learn to integrate TV and Radio programs into state-of-the-art digital media formats. Emphasis will be on taking finished programs and converting them into streaming media for the web.

Education - Early Education 3.0 Credits 12

Students focus on and learn the knowledge and skills necessary in early childhood care and education programs such as kindergartens, preschools, childcare centers, family childcare homes, and before and after school programs. These programs require professionals who understand how children grow and learn, can develop caring relationships with young children and have skills at planning and implementing a program that meets the specific characteristics of young children.

Education - Future Teachers 3.0 Credits 12

Students will be provided with an overview of the foundations, philosophy, history and organization of education as well as an introduction to teaching as a profession. A required Practicum placement matches students with a teacher in the kindergarten through grade 12 educational setting, thus class members receive practical experience working with children in a classroom setting. Combined with textbook readings, reflections, and classroom discussion, students will explore teaching as their potential future career.

Emergency Services/Fire Science 3.0 Credits 12

This program will prepare students to enter courses in the field of fire protection and emergency medical services. This course provides an overview to fire protection; career opportunities in the fire protection and related fields, philosophy and history of fire protection services; organization and function of public and private fire protection services; fire departments as part of local governments; laws and regulations affecting the fire service; and fire nomenclature. During this class, problem-solving, decision making and basic firefighting competencies will be practiced. Emergency Services topics will include patient assessment, CPR, AED, triage and scene management.

Sports Medicine 3.0 Credits 12

This course is for those wishing to pursue a profession in Sports Medicine. Careers include: athletic training, physical therapy, personal trainer, sports medicine, physician, physical education teacher, and many more. The introductory course in Kinesiology will examine the multitude aspects of physical education and Kinesiology as a discipline, major, and profession. Sub-disciplines and career options in the field, along with historical perspectives and current issues in physical education will also be discussed. The Athletic Training portion will be an overview of prevention, management, and rehabilitation of athletic injuries. Other topics will include legal implications for athletic training, first aid principles, and taping procedures.

Shiawassee Career & Technical Education Programs

Auto Services 3.0 Credits 12

Auto Services, Electrical/Electronic Systems Program helps prepare students to perform successfully on the state technician's certification test for automotive electrical systems. The state certification is required for all persons who work as specialty technicians or master technicians in Michigan.

Computer Numerical Control Operator 3.0 Credits 12

This program prepares individuals to apply technical knowledge and skills to operate Computer Numerical Control machine tools including lathes, mills, precision measuring tools, and related attachments and accessories, in order to perform machining functions such as cutting, drilling, shaping, and finishing products and component parts.

Computer Networking 3.0 Credits 12

Computer networking technology is one of the fastest growing markets for employment of individuals skilled in computer connectivity both through local and internet sites, PC and server maintenance, system troubleshooting, and network security which are the foundations of this field. Students learn about computer hardware components and the networking software used to connect them, as well as gain hands-on experience installing and configuring Networks. This program will help prepare individuals to sit for qualifying examinations that may lead to certification as a Microsoft Certified Solutions Associate. Courses within this program also help prepare students for CompTIA A+ and Network+ certifications.

Computer Science 3.0 Credits 12

This program is designed to immerse students in the core knowledge of computer science and software engineering. This program will focus on programming technologies and will prepare students for advanced education in computer science, software engineering, game design and mobile applications development.

Introduction to Criminal Justice 3.0 Credits 12

Earn college credit in the Introduction to Criminal Justice Program, which will provide students with exposure to the purposes and career opportunities available in a criminal justice setting. Coursework in this program will prepare the student for a variety of certificate, associate and baccalaureate degree programs such as: 911 telecommunications, Corrections Officer, Criminal Justice, and Public Safety. Students will study the history of policing, patrol techniques, the courts system, the corrections system, and much more.

Introduction to Health Occupations 3.0 Credits 12

This program will provide students with exposure to the purposes and career opportunities available in a healthcare setting. Coursework in this program will prepare the student for a variety of certificate and associate degree programs such as: Patient Care Aide, Pharmacy Technician, Phlebotomy Technician, Therapeutic Massage, Medical Receptionist and other Medical Office degrees. Students will examine the complexity of the American healthcare system, healthcare delivery models, medical terminology, basic human anatomy, and legal concepts for medical practice.

Heating, Ventilation, & Air Conditioning 3.0 Credits 12

Earn college credit in the Heating, Ventilation and Air Conditioning Program which will introduce students to the operation, installation, trouble shooting and maintenance of hearing and cooling systems with a focus on residential forced-air hearing, and air conditioning units. Students will

receive hands-on experience with heating and cooling equipment. This program will prepare students to perform successfully on the EPA Certification exam for air conditioning technicians.

Health Science Academy 3.0 Credits 12
This program will provide students with exposure to a variety of health care occupations. The curriculum and core tasks are based on National Health Care Skill Standards. Between classroom instruction and clinical rotations, students will learn hospital procedures, medical terminology and abbreviations, legal and ethical aspects of medical practice, CPR and have the opportunity to job shadow with hospital staff. Eight one-week clinical rotations along with instruction will give students the basic skills necessary to obtain entry level employment in general health care positions.

Eaton Regional Education Service Agency

Alternative Energies Technology 3.0 Credits 12
Students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas will discover this program provides an exciting portal into these industries. Through activities-based, project-based, and problem-based learning, this program creates an environment for applying engineering concepts to real problems. No matter where students pursue their collegiate training in engineering, this program provides an excellent foundation for addressing the implementing solutions to existing problems with contemporary technology and applied logic.

Auto Collision Repair 3.0 Credits 12
This program introduces the student to the tools used and elementary repairs completed in the collision repair industry. This includes an introduction to the refinishing process that forms the basis for all automotive refinishing work. Surface preparation, material selection, and the use of hand and power tools (including automotive spray guns) will be covered.

Automotive Technology 3.0 Credits 12
Students in this program will cover the four National Institute for Automotive Service Excellence requirements for training in auto service and brakes. An introduction to basic shop procedures is also provided. Students must have a valid driver's license in order to operate vehicles in the lab. Students in this program will also study steering and suspension and electrical theory including the diagnosis and repair of malfunctioning circuits.

CADD/Pre-Engineering 3.0 Credits 12
This program teaches the basic skills and concepts for design, manufacturing, and decision making related to engineering processes. Some of the skills covered are basic drafting conventions and techniques, 3D parametric modeling, and a study of materials and processes for modern manufacturing, material science, and testing.

Computer Graphics/Animation & 3D 3.0 Credits 12
This program explores design and visual communication in art, animation, 3D modeling, video games, advertising, video and the World Wide Web. Students are expected to sketch ideas and designs and develop them as 2D and 3D projects. Extensive hands-on training in several of the major software applications used in the field of computer design is provided. Students will create and modify images in Photoshop, create animation and interactive media and develop three-dimensional models in various modeling platforms. Students will learn sketching and drawing skills with various physical materials. The goal is to apply visual awareness and technical skills to create exciting, visually appealing static, animated and interactive designs.

Computer Support 3.0 Credits 12

This program provides students with the skills to diagnose and correct problems that computer users encounter. The student receives practical hands-on experience in installing, maintaining, and troubleshooting computer hardware and software while developing their communication skills and professionalism. This course includes the two current CompTIA A+ certification.

Criminal Justice 3.0 Credits 12

Explores the basic concepts and potential career opportunities in Criminal Justice. The program provides instruction in the areas of law enforcement, the courts, and corrections. Criminal Justice is primarily an academic program with some hands-on activities such as pressure points, take downs, handcuffing, Teen Court and firearms and training throughout the semester. Field trips also are scheduled to the Hall of Justice, Camp Highfields (a juvenile center), the Ingham County Jail, and a prison (for those students who are at least 18 years of age). Frequent guest speakers give information about what it is like to be a police officer, corrections officer or juvenile worker.

Emergency Medical Services/Fire Science 3.0 Credits 12

This program will prepare students to enter courses in the field of fire protection and emergency medical services. This program provides an overview to fire protection; career opportunities in the fire protection and related fields, philosophy and history of fire protection services; organization and function of public and private fire protection services; fire departments as part of local governments; laws and regulations affecting the fire service; and fire nomenclature. During this class, problem-solving, decision-making, and basic firefighting competencies will be practiced. EMS topics will include patient assessment, CPR, AED, triage and scene management. HIPAA and OSHA standards, as well as written, verbal, and radio communications will be taught. Practical skills may include the proper use of basic equipment in the delivery of basic emergency care. Allied Health topics will include common medical terms and abbreviations, basic anatomy and physiology, and career exploration into an assortment of pre-hospital and hospital careers.

Environmental & Sustainable Construction 3.0 Credits 12

This class will focus on the challenge of building and renovation projects, woodworking and carpentry. Environmental Construction will help students gain hands on experiences in the essentials you will need to progress in the field. Students will learn the skills needed to construct single family, multi family, and commercial buildings. Students will also learn energy management and alternative methods for heating and cooling buildings and residences.

Fashion Design 3.0 Credits 12

Students will explore the careers of the fashion, textiles, retail, merchandising and design industry through field trips, guest speakers, textbooks, workbooks, the internet and project based learning. Students will learn about the globalization and environmental issues in the apparel industry. Students will be exposed to all foundational design and industry practices and standards. They will experience fashion design, visual merchandising, styling and trend forecasting through project based learning. Students will implement green principles by developing designs and up cycling discarded garments and household goods. Technical drawing, fashion sketching and illustration techniques are used to create industry specs and designs. Students will conceive, design and construct up cycled repurposed garments which they will install in a gallery setting.

Health Technology 3.0 Credits 12

Students prepare for health-related careers by gaining: 1) an overview of current health systems, 2) information on potential career, 3) application of study skills, and 4) practice in the basic skills required for jobs in a variety of health-related occupations. During first semester, computer research and academic work focus on exposure to various health careers. Second semester emphasizes skills for the nurse assistant certification (CENA long term care nurse aide credentials)

and college level medical terminology. Throughout the course, students learn the professional characteristics for healthcare workers including critical thinking and interpersonal skills. Students are trained in a solid foundation of core nursing assistant skills including blood pressures, vital signs, occupied bed making, transfer techniques, and medical abbreviations. Students will be exposed to various health occupations through service learning, guest speakers, field trips and job shadows.

Heavy Equipment Repair 3.0 Credits 12

Classroom and hands on repair of construction and farm equipment. This is a unique opportunity for you to be trained at AIS Construction Company, a state-wide heavy equipment dealer. Tasks and skills learned will include: operating a diesel engine; perform common repairs on modern diesel engines including routine maintenance according to industry guidelines; basic electricity; fundamentals of hydraulics including tearing down and assembling hydraulic components and cylinders; heavy equipment power trains; disassembling and reassembling transmissions and axle assemblies; applying all course content to the latest technology coming in from construction and farm equipment manufacturers.

Heavy Equipment Operator 3.0 Credits 12

This program provides students with an orientation to the heavy equipment industry including heavy equipment safety, equipment maintenance and basic operation techniques. Included will be techniques of underground construction including grades, below grade construction, and earth moving. Also covered is how to lay pipe and cable including the different kinds of soils and processes used in different kinds of construction.

Insurance & Risk Management 3.0 Credits 12

In this program students will explore careers in the Insurance and Risk Management industry in a nationally recognized risk management program at Olivet College. Students will investigate the process of risk management and the field of insurance, including: social value, economic influence, loss exposures and protection, marketing, claims adjusting, underwriting, personal insurance, financial planning, and commercial insurance. This program is highly recommended for students planning to pursue a career in Business or Finance. It is recommended that students enrolling in this program have successfully completed an Accounting, Personal Finance, or Business Management class prior to enrolling in this program. Students should also be familiar with Microsoft Word, Internet, and email.

Law Enforcement 3.0 Credits 12

This program explores the basic concepts and potential career opportunities in Law Enforcement. The program provides students with a current, coordinated, and comprehensive overview of criminal justice as an institution and as a system. Students will also be exposed to concepts and theories of patrol and the delivery of police services along with an understanding of the philosophy of community policing. A career in law enforcement requires you to read, understand criminal laws and write reports. Therefore, good reading, oral communication and writing skills are important. A typical week will involve three days of classroom instruction and two days of physical fitness that requires participation and hands-on policing activities. Some activities include self-defense, defensive tactics, handcuffing, crime scene processing, traffic stops, accident investigation, arrest techniques, report writing, and drills. Students will practice the Michigan Commission on Law Enforcement Standards (MCOLES) physical test that is required when a person wants to attend a police academy.

Mechatronics & Robotics 3.0 Credits 12

After an introduction to industrial workplace safety, including the ability to earn First Aid and CPR/AED certifications, students will focus on the installation and repair of electrical, hydraulic, pneumatic and digital controls that operate Automated Mechanical and Robotic Systems.

Mobile APP & Web Development 3.0 Credits 12

This course teaches hands-on skills and builds knowledge for Internet professionals. It is designed to explore the potential uses of the internet for business and communication including the use of email, search engines, discussion boards, and other internet applications including web page development such as Web usability, HTML and CSS. Students will develop individual websites that progress to include elements such as graphics and multimedia. Students will also gain an understanding of mobile applications (apps) and how these applications are utilized and integrated to meet specific business needs. The coursework builds a solid foundation of software development skills and introduces the specific skills needed for developing mobile applications.

Welding 3.0 Credits 12

Students are instructed in the basics of gas welding and arc welding processes. Students are prepared to set up and pass a qualification test according to the American Welding Society. Students in the first year will also receive a basic introduction to machining. Second year students will learn advanced arc welding, which prepares them for welding pipe and passing a qualification test using shielded metal arc welding. Students will also learn gas tungsten arc welding as well as an introduction to blueprint reading for welders and metallurgy. In addition, students in the second year will learn basic CNC setup and CNC programming. Welding is taught through lectures and hands on experiences. Common sense and safety are important qualities for students' interest in welding.

Zoo Animal Science 3.0 Credits 12

This program is designed for students who have career interests in zoology, marine and animal science, veterinary medicine, conservation and /or environmental education. This is an in-depth, hands on learning experience in a real world setting-Potter Park Zoo. In addition to classroom work, students will be expected to actively participate in zoo activities. Students must be willing to tolerate working in various weather conditions. Rain jackets are provided.