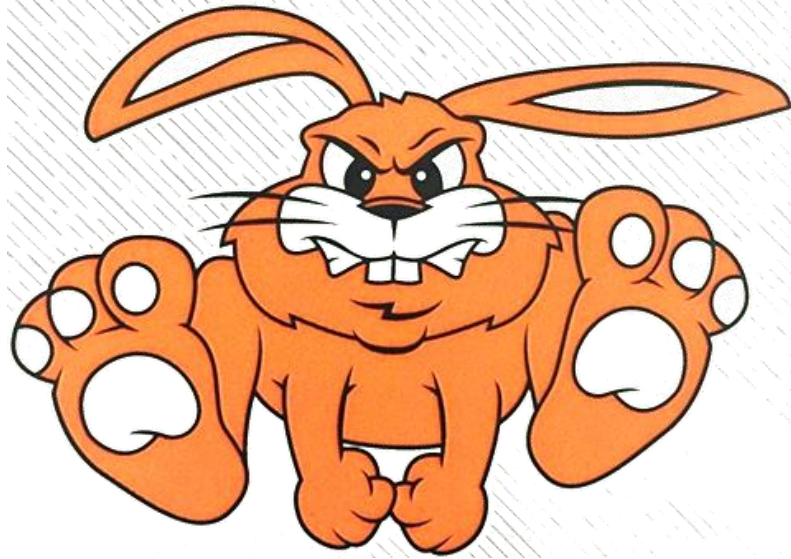


9th - 12th Grade



❖ Curriculum Guide ❖

Fisher High School

“The mission of the Fisher Jr./Sr. High School Community is to provide a safe and supportive environment with educational opportunities that inspire students to become responsible and productive citizens.”

**2019-
2020**

THE SCHOOL CODE OF ILLINOIS requires the following courses or subjects be taught in public schools:

1. English.
2. Patriotism, principles of representing government, proper use of the flag and the methods of voting.
3. Physical education.
4. Health Education.
5. Driver Education.
6. Conservation and Ecology.
7. Safety Education.
8. History of the United States.
9. Consumer Education (Personal Finance).

A student can elect to take a consumer proficiency exam and waive the Social Problems Consumer Education course if the following criteria are met:

1. At least minimum score accepted by the State of Illinois is achieved.
2. The proficiency exam is not taken for the sole purpose of graduating early.

Any student passing this test may decide to take the Consumer Education class for credit or may register for another course. Passing this test only allows a student to waive consumer education; no credit or grade can be given.

All students are required by state law to take Physical Education, Health Education, Safety Education, and United States History. **The local board of education may require other courses or subject matter as deemed necessary and appropriate.**

UNITS OF CREDIT AND REQUIREMENTS FOR GRADUATION FROM FISHER HIGH SCHOOL

A unit of credit is given for the completion of an academic course taken throughout the school year. The minimum number of units required for graduation is 25. Specific requirements for graduation are as follows:

1. Four units of English.
2. Two units of Social Science (U.S. History, U.S. Government, and semester elective)
3. Three units of Science
4. Consumer Education (**Starting with the Class of 2021 will be required to take Personal Finance**)
5. Three and half units in other subjects approved by the Principal and/or Advisor.
6. Computer Science (No longer required for Class of 2021)
7. 2 units of physical education (**Starting with the Class of 2022 will be 3.25 units**) are required. Students are required to take and PASS 4 years of physical education class unless excused by a physician or exempted by the principal.

It shall be the policy of Fisher Community District No. 1, Fisher, those students in grades 11 and 12 may request exemption from physical education for the following reasons:

- a. The student is determined to be participating in interscholastic athletics as certified by the appropriate District personnel and the student will be enrolled in P.E. if not participating in a fall sport, and will return to P.E. if dropped from a school sponsored sport.
- b. The student provides written evidence from an institution of higher education that a specific course not included in existing state or local school minimum graduation standards is required for admission. School District staff must verify that the student's present and proposed schedule will not permit completion of the needed course, or
- c. The student lacks sufficient course credit of one or more courses required by state statute or

local school board policies for graduation. Students who have failed a required course, transferred into the district with deficient credits or who lack credits due to other causes will be eligible to apply for this exemption. Each request for exemption from Physical Education instruction is to be verified and eligibility determined on a case-by-case basis by the building principal. Every student excused from physical education course requirements will be provided with a schedule which meets minimum school day requirements. Approvals of exemptions will be for one semester only, but may be renewed for additional semesters if circumstances warrant.

9. One unit of elective in vocational, art, music or foreign language.

10. 1/2 unit of Driver Education

11. 1/2 unit in Health Education

*Upon approval of the principal or guidance counselor, a maximum of two units earned from an accredited correspondence or night school may be applied toward the twenty-two units required for graduation from Fisher High School.

* Upon approval of the principal or guidance counselor, a maximum of two units earned from a distance learning opportunity (Parkland CC, IVS, etc...) may be applied toward the twenty-two units required for graduation from Fisher High School.

* **No student** enrolled in Fisher High School shall be graduated who has not attended a minimum of 7 full semesters in grades 9-12 of accredited high school regardless of the number of units above the required 25 he/she may have earned. The school shall not graduate any student until all requirements set forth are met.

* Seven classes shall be considered the normal amount of work carried for credit toward graduation. The desirability of a eighth subject will be determined on the basis of individual merit or graduation requirements by your counselor and the principal.

COLLEGE ENTRANCE REQUIREMENTS

The entrance requirements for most colleges and universities differ and it would be to your advantage to plan your high school program so that you meet the requirements of the school(s) in which you have an interest. Many schools require certain entrance examinations at either the junior or senior year of high school. See the counselor preferably your junior year for information on these tests.

Minimum High School Course Requirements For Admission Of Freshmen To Illinois Public Universities

English 4 - Emphasizing written and oral communication & literature

Social Studies...3 - Emphasizing history & government

Mathematics..... 3 - Introductory through advanced algebra, geometry, trigonometry or fundamentals of computer programming.

Science 3 Laboratory Science

Electives 2 Foreign language, music, art, vocational education

Total15

Fisher Jr/Sr High School G.P.A. Calculation

If ever there is a need to figure GPA by hand, it should be done as follows:

* Credits - Count all credits, except Student Services and Drivers Education

* Units - Count each grade as a unit, including any "F". A Grade means any letter grade. Each letter grade counts as "1" unit. Do not count any audits. WP = "D", and WF = "F".

* Points - We are on a 4.0 grading scale. (See Handbook page 18)

Add up all points. Then divide points by your total units. This equals your GPA out of a 4.0 scale.

Weighted Classes

Weighted grading system will be implemented giving more weighted credit to difficult non-required courses. In order to be considered for a weighted class, classes must not be required for graduation and must have prerequisites. 1.0 multiplier for GPA for grade of "C" or above. (Starting in 2019-2020 the following classes with * will be weighted). This list of weighted classes will be only available for Seniors in 2019-2020.

- AP Calculus*
- AP US History*
- Dual Credit American Music 123*
- Dual Credit English 101 and 1102*
- Dual Credit Psychology*
- Dual Credit Sociology*
- Dual Credit Statistics*
- Dual Credit Human Biology*
- Physics (Only for 2020)
- Spanish IV (Only 2020)

Description of Courses Offered at Fisher High School

Agriculture Education

Agricultural Math | 6016

This course is designed to give math a purpose by showing algebraic equations, ratios, formulas, measurement, and analysis of data through agricultural problems and activities. Math concepts will have a meaning by relating to the agricultural industry topics of land measurements, spraying ratios, storage of products by volume and area, fencing, taxes, net worth, merchandising, interpreting data, rafters, horsepower, fertilizer rates, electricity, concrete estimation, board feet, and temperature conversions.(Credit–1 unit)

Agricultural Sales and Marketing| 6019

This course is designed to develop student knowledge and skills in agricultural sales and marketing, commodity marketing, and agricultural economics. Instructional units may include: successfully starting an agribusiness; developing a marketing plan; pricing, advertising, and selling products and services; communicating with customers; basic economic principles; and agricultural career opportunities. Student skills will be enhanced in math, reading comprehension, communications, and writing through agribusiness applications. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.(Credit– 5 unit)

BSAA Animal | 3014

This course is designed to reinforce and extend students understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. The course will explore the growth and development of animals (embryology, nutrition, immunity systems, and processing animal products (preservation, fermentation, and pasteurization). The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.(Credit-1 unit)

Prerequisite –Intro to Ag, Biology or consent of instructor

Environmental Science|6021

This course develops management and conversation skills in understanding the connecting between agriculture and natural resources. The impact of plant and animal production practices on the environment and the adoption of practices leading to improved air, land, and water quality are investigated. Areas of emphasis include: types of ecosystems, management of waste, chemical use, soil conservation, land uses and regulations, and water and air quality, understanding natural resources and its importance; fish, wildlife, and forestry management and conservation; exploring outdoor recreational enterprises; and discussion careers in the field of environmental science. (Credit-.5) Prerequisite-Intro to Ag and Horticulture

Horticulture | 6018

This course is designed to develop knowledge and skills in the following areas: using soil and other plant growing media; identifying horticultural plants; propagating horticultural plants; basics of growing horticultural plants in greenhouse and nursery settings; constructing, maintaining and using plant-growing structures; operating, repairing and maintaining equipment used in the horticultural field. (Credit-1 unit)

Introduction to Agriculture | 6015

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at the state, national, and international levels; and the scope and types of job opportunities in the agricultural field. Students will be exposed to the basic concepts of animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.(Credit– 1 unit)

Veterinary Technology|6020

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. (Credit-.5 unit) **Prerequisite: Junior or Senior**

BUSINESS EDUCATION

Accounting I | 5011

This course provides information on the recording, summarizing, analyzing and interpretation of financial data. The emphasis of the course is on the basic principles, concepts, and procedures which must be understood to enter the world of business. Basic fundamentals and terminology are stressed and data processing is integrated throughout the course. Computerized business simulations are used to emphasize actual business record management. (Credit –1 unit) **Prerequisite: Junior or Senior with a GPA average of a C or higher**

Business Ventures | 8010

This full year course will provide students with an understanding of business concepts. It will give students the basic knowledge of understanding business operations, concepts, functions, and skills required for operating a business in the global economy. Topics covered will include economics, the forms of business ownership, marketing, management, and accounting. Careers within the business field will also be explored. (Credit-1 unit)

CEO | 9015

Creating Entrepreneurial Opportunities is a year-long course designed to utilize partnerships that provide an overview of business development and processes. Our local business community partners with area schools to create project-based experiences for students by providing funding, expertise, meeting space, business tours, and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own businesses. Business concepts learned through the experiential CEO class are critical; the 21st century skills of problem-solving, teamwork, self-motivation, responsibility, higher-order thinking, communication, and inquiry are at the heart of a student's development throughout the course. (Credit -1 unit)

Personal Finance| 8040

Understanding financial management concepts is an important life skill. From credit to insurance to how to afford college, it is imperative that students understand the consequences of their choices. By wisely managing their money, students become citizens that are more responsible. A thorough understanding of financial concepts, with practical application through activities and projects, will enable students to leave this course with applicable, useful skills for life. This course surveys the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, creating a resume, applying for jobs, and the basics of preparing income tax returns. After high school, students face a world filled with possibilities, and the more knowledge they can acquire, the higher the probability that their financial future will be secure. Students taking this course will learn to better prepare for their financial futures. This course meets the consumer education credit requirement to graduate. (Credit– .5 unit) **Prerequisite: Students must have junior or senior status**

COMPUTER EDUCATION

Class of 2020 and 2019 Students are required to complete ½ unit of computers.

Computer Concepts | 2051

Computer Concepts and Software Applications is an orientations-level course designed to develop awareness and understanding of application software and equipment used by employees to perform task in business, marketing, and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management presentations software, and desktop publishing. Students will explore topics related to computer concepts, operations systems and emerging technologies. This will include creating and updating documents using word processing and desktop publishing programs, creating slideshow with speaker noted and handouts. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases. (Credit – .5 unit)

EFE# B105

Web Design| 2053 EFE# B218

Web applications and design is a skill-level course designed to prepare students to plan, design, create and maintain web pages and sites. Students will learn the fundamentals of web page design using tools in Adobe Dreamweaver. Students will work in project-based environment to create a working website. Students will learn to create pages, add hyperlinks, make tables and frames, create forms, integrate images, and set styles. Students will use image-editing programs to manipulate scanned images, computer graphics, and original artwork. Students will also use hardware and software to capture, edit create, and compress audio and video clips. (Credit-.5 unit) **Prerequisite: Junior or Senior**

2-D Design |8020

Desktop publishing combines the skills of graphic design, layout, and production of a variety of published products, using a variety of software tools. This course will focus on using desktop publishing software to effectively communicate messages in printed form. Students will be introduced to the practical, creative uses of computer software in commercial application, as well as develop an understanding of advertising design, and layout. Throughout the course, students will design menus, advertisements, flyers, programs, CD covers, and calendars.(Credit-.5 unit)

ENGLISH

Students are required to complete four units of English. To complete each unit, students must compose six write to pass papers.

English I | 1021

This course will provide an introduction to English through the reading of literature and literary response. Students will read a variety of texts including short stories, novels, poetry and Shakespeare's Romeo and Juliet. In addition to literary analysis, students will build their writing skills through various short and long essay assignments with a specific focus on expository writing.(Credit-1 unit)

English II | 1022

This course will build on the skills learned in English I, with a broader focus. Students will read more multicultural literature, and participate in an in-depth look at 21st century literature (online newspapers, magazines etc.). This class will provide more opportunities for creative writing, as well as focusing heavily on the components of persuasive writing.(Credit-1 unit) **Prerequisite-English I**

English III | 1032

English III, or Survey of American Literature provides a chronological study of American literature. This study gives an understanding of literary development, as well as exposing students to classical literature and building reading skills. Additionally, students work on skills that will help them succeed on the ACT and PSAT test, given at the end of Junior year. This class will again build on previous years writing skills, as well as focusing heavily on persuasive writing.(Credit- 1 unit) **Prerequisite-English II**

Dual Credit 101, 102 English Composition (Honors)|1223,1224

Eng. 101- Extensive essay writing practice with emphasis on the writing process, purpose and audience, critical analysis, focus organization and development, clarity and coherence.

Eng. 102- This course, English 102, focuses on research paper writing with emphasis on adopting and logically arguing a position, narrowing and supporting a thesis statement, developing effective research techniques, accurately documenting sources within a conventional format, and rhetorical situation and rhetorical awareness, as well as critical thinking. **Prerequisite-This course is designed for Seniors. Students must receive a score of 480 or higher on the Reading And Writing (ERW) section of the SAT (English and Reading ACT score of 20) or pass the Parkland Compass placement exam in order to enroll in the course.**

Ethics & Philosophy|1046

This course is an introduction to the philosophical study of ethics and morality, including the theory of right and wrong behavior, the theory of value, and the theory of virtue. Major emphasis will be placed on justice, equality, democracy, and citizenship. Particular philosophers studied will include Bentham, Mill, Nozick, Locke, as well as others. This course is designed to help students develop their abilities to read, analyze, and evaluate philosophical literature, write and express themselves well about their own ethical positions, and think critically and analytically about ethical issues. **Prerequisite- This is a semester course for 11th or 12th graders, and would earn a ½ credit in English or as an elective. The course is designed with honors level rigor, a considerable amount of reading, writing, and class discussion is expected.**(Credit-.5 unit)

Young Adult Literature & Composition|1042

This course will focus on three major themes of adolescence, young adult literature, and contemporary culture: who is watching?, negotiating identity, and why we read. The pieces read in the course will help adolescents sort through a variety of topics including, diversity, nationality, ethnicity, technology, spirituality, and ethics. Books and films will be analyzed that inspire strong emotional responses, while asking students to think about contemporary issues of young adults. A reader's journal and vocabulary notebook will be required.

Prerequisite- This is a course designed for young adults, 9th or 10th graders, who could enroll either 1st semester, 2nd semester, or both. Writing assignments will include book reviews, analysis papers, research papers, and journal entries. Class work will be devoted to discussing the literary works, commenting and peer editing of student writing, and striving to improve critical thinking abilities and writing skills. (Credit-1 unit)

World Literature & Composition|1044

The course is designed to prepare students to enter a vocational school, community college, four-year college, or the workplace. Emphasis is placed on skills needed to function in the increasingly complex and changing world. Students will perform various research tasks, read and comprehend a variety of texts, write for a variety of purposes, and analyze and make critical judgments. Authors covered may include Arthur Miller, George Orwell, Ray Bradbury, William Golding, Khalid Hosseini, Shakespeare, as well as others. Short stories, poetry, and independent readings are also a part of the coursework. A reader response journal and a vocabulary notebook are required. **Prerequisite- This course will be available for 11th and 12th graders, who may enroll either 1st semester, 2nd semester, or both, earning a ½ credit in English or as an elective for each semester. This course serves as an alternative to those seniors not enrolled in Dual Credit English or English IV; in addition, it is an option for juniors who may wish to graduate early.**

Multi-Media & Broadcast Journalism | 1020,1024,1030,1038

This course teaches students about the many different roles required to work in journalism and the opportunities provided by studying journalism. First, students are introduced to the essential concepts of journalism: purpose of reporting, the structure of a successful news organization, and responsibilities of journalists. After students are introduced to these essential concepts, they learn more about them by being immersed into the multiple roles required to run a successful news organization. Students hone their skills as journalists by creating and running their own web-based school newspaper. **Prerequisite– Offered 9-12 for multiple years in high school. All students seeking entrance into this course must obtain a teacher recommendation. Students must ask a Fisher Jr. or Sr. High School teacher to complete a student survey questionnaire and that teacher must return the survey to Mr. Moody. Students who do not complete the teacher recommendation process will not be admitted into the course**

FOREIGN LANGUAGE

Spanish I | 2010

This course is designed for students with no prior second language experience. Students will develop basic skills for communicating in Spanish: listening, speaking, writing, and reading. The focus will be on vocabulary

acquisition and the basics of Spanish grammar and sentence structure, including the present and preterit tenses. Students are introduced to the cultures of several Spanish-speaking countries as well as Hispanic cultures represented in the United States. Thematic units include school, family, shopping, and traveling. (Credit –1 unit) **Prerequisite: grade of C or above in previous year’s English course or Spanish Teacher recommendation**

Spanish II |2020

Students continue the skill development begun in Spanish I. Vocabulary and grammar are expanded so that students can further develop their conversational and reading skills. The imperfect and future verb tenses are added. The cultures of additional Spanish-speaking countries are studied, including current events. Thematic units include daily routines, childhood memories, eating out, and nature.(Credit – 1 unit) **Prerequisite: 70% or above in both semesters of Spanish I**

Spanish III |9030

Students focus on personal communication, exchanging information in Spanish with accuracy and within an authentic cultural context and practicing reading and conversation extensively. Vocabulary and grammar are expanded, including the addition of the subjunctive and present perfect tenses. Students engage in more in depth study of Hispanic culture. (Credit – 1 unit) **Prerequisite: 70% or above in both semesters of Spanish II**

Spanish IV (Honors ends with the class of 2020) | 9035

Students focus on ancient and contemporary Spanish literature with and emphasis on reading for comprehension. Conversation skills are broadened. Vocabulary and grammar are expanded, including the addition of the conditional and present perfect subjunctive, and imperfect subjunctive tenses. Students continue an in depth study of Hispanic culture. (Credit –1 unit) **Prerequisite: 70% or above in both semesters of Spanish III**

INDUSTRIAL ARTS

Automotive|7061

A year long course offered every other year starting 2019-2020 school year. This course will reinforce automotive shop safety as introduced in intro to automotive. Further training in automotive brakes, steering and suspension systems, cooling system, drivetrains, electrical systems, and maintenance will be a large part of the course. There will be an emphasis on diagnostics and documentation to communicate with the client.

Prerequisite: Introduction to Automotive (Credits-1 unit)

Construction Trades I| 7053

This year long course will include basic skills in carpentry math, plan readings, foundations, wood framing, electrical wiring, plumbing, roofing, and exterior and interior design and construction. Job site and hand and power tool safety will be stressed as projects such as building garden sheds are used to introduce these basic skills. **Prerequisite TC I&II/Foundations of Tech** (Credits- 1 unit)

Construction Trades II| 7054

This year long course offered every other year starting 2018-2019 will provide students with further knowledge of the basic skills introduced in Construction Trades I. Projects will include but are not limited to cabinet making, fine furniture, and a mass production/teamwork project that will be for sale to the community. Safety practices, attention to detail, and finishing techniques will be emphasized. Students completing this course would be prepared for apprenticeship in various trades as well as entry to trade schools. **Prerequisite Construction Trades I** (Credits- 1 unit)

Foundations of Technology|(Replaced Technology Concepts I/II) 7014

This year long course is the prerequisite for all other industrial arts courses. This class will cover work ethics, the definition of technology, the design process, engineering careers and fields, energy systems, measuring systems, and other basic technology concepts. This course will also introduce students to various hand tools and basic shop safety. Students will leave this class with a good base of knowledge to go forward to other industrial arts classes.(Credit – 1 unit)

Introduction to Automotive|7060

This is a year- long introductory course. As with all industrial arts courses safety will be a unit and a priority. We will also introduce the students to the basics of a four stroke gasoline engine through the tear down and assembly of a single cylinder engine. Brief introductions to other automotive systems will be taught including brakes, steering and suspension, drivetrains, electrical systems, cooling systems, and maintenance. After completing this course students should be prepared for either more complex automotive training or an entry level position.(Credit – 1 unit) **Prerequisite: TC I and II/Foundations of Technology**

Metal Working/Welding I|7043

This is a year- long course for juniors and seniors only. The first semester of this comprehensive course introduces students to fundamental metalworking skills. There will be an emphasis on the introduction to metal shop safety, learning about different types of metals, and different metal working techniques and careers. There will also be an introduction to oxifuel and plasma cutting as well as MIG and SMAW welding. An intro to these theories in the classroom will lead to hands on experiences in the shop. The second semester the students will be introduced to precision measuring tools and techniques as used in a machine shop environment. There will also be an introduction to TIG welding.(Credit – 1 unit) **Prerequisite: TC I and II./Foundations of Tech**

MATHEMATICS

Students are required to complete 3 units of Mathematics

Algebra I | 2022

Algebra I, for some may serve as the foundation course to whole series of mathematics courses leading to a specialization in mathematics, science, or engineering; or for other programs. Algebra is an extension of arithmetic and is built on the foundation of arithmetic (normally thought of as number), but makes use of letters for number symbols. It not only uses the numbers in arithmetic, but their opposites, which are called negative numbers. In algebra we use equations to solve problems, thus enabling one to solve problems more easily and to solve many problems which could not be solved by using only methods of arithmetic.(Credit-1 unit) **Prerequisite: teacher recommendation**

Algebra II | 2023

Algebra II is a one year course. The skills and concepts from Algebra I are expanded and then applied to new situations and processes to include many real-life scenarios. Linear, quadratic, exponential, and rational functions will be explored analytically and graphically. Trigonometric functions and basic statistical methods will be introduced as well as mathematical tools to solve application problems. This course is designed to help students have success on the ACT/SAT tests while reinforcing the core curriculum of Algebra. (Credit- 1 unit) **Prerequisites for this course includes Algebra 1 and Geometry**

College Algebra| 2034

College Algebra is a one year course that is designed for motivated students who have demonstrated insight and ability in the area of mathematics. This course should expand students' understanding of mathematics using a set theory approach and begin to lay a foundation for university level mathematics. Topics to be studied include linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions. Students will also be introduced to matrices, combinations, and probability. It is expected that students enrolled in this course plan to take Pre-Calculus and Calculus in their future.(Credit- 1 unit) **Prerequisites for this course includes either the completion of Algebra 1 and Geometry with a B average or above in both courses or the completion of Algebra 2.**

Dual Credit MATH 108 Introduction to Applied Statistics (Honors)|2060

Basic statistical principles, graphic presentation, descriptive measures of central tendency, dispersion and location, inferential statistics and hypothesis testing, analysis and inference of linear correlation coefficient, and the slope of regression line. (Credit-.5 unit) **Prerequisite: This course is designed for Seniors. Teacher recommendation for Juniors interested in taking the course. Students must earn an ACT Math Score of 22 (or higher) or a SAT math score of 530 (or higher) or take the ALEKS placement testing.**

Geometry | 2031

In the study of Geometry, there are the following two main objectives: (1) to develop and discover important facts concerning figures that lie on a plane or in three dimensions. These figures are composed of points, lines, line segments, and curves. Topics covered will discuss the use of previous list of figures, in relation to such shapes as: angles, polygons, circles, and the relationships between them. (2) Logical development of the course as an abstract science, the resulting clarity of thinking, and the ability to discuss mathematics logically and with the proper terminology. The reasoning power that will be gained in solving geometric problems should make the student a more insightful person.(Credit - 1 unit) Prerequisite - **Algebra I**

Pre-Calculus | 2041

The Pre-Calculus course builds on topics and concepts learned in previous mathematics courses.

Using technology, such as graphing calculators, enables students to investigate data and develop a better understanding of its meaning. The focus of the course is on problem solving and exploration, while building a deeper understanding of algebraic properties and techniques. The concept of functions is fundamental to the understanding and development of the familiar linear and quadratic equations leading into the understanding of higher-order and more complex equations. This course examines the properties of the following functions, graphs, and inequalities: Absolute Values, Systems of Equations, Matrices, Polynomials, Complex Numbers, Rational Equations, Extraneous Solutions, Radicals, Logarithmic, Trigonometric Relationships, Inverse Trigonometric Relationships, and Conics. Mastery of the topics studied in this course will provide students with the background necessary for college level courses such as calculus or statistics.(Credit - 1 unit) Prerequisites - **Algebra I, Algebra II and Geometry**

AP Calculus (Honors)| 2062

Calculus is a senior level course intended for students who have a thorough knowledge of college preparatory mathematics including algebra, geometry, and trigonometry. This course is a Honors course and has rigorous curriculum requirements. The general theories and techniques of calculus are developed and applied to a wide variety of functions and corresponding applications. The

calculus topics include a review of analytical geometry and functions, and a study of limits, derivatives, applications of the derivative, integrations, and applications of the definite integral. Students will gain an understanding of these topics algebraically, graphically, and conceptually. (Credit - 1 unit) **Prerequisite - Pre-calculus**

Music Education

Band| 1211

Band is an elective course available to students with previous instrumental music background and/or some experience reading music. Students will learn music theory, history, and how to play expressively through the performance of quality literature. Band members are required to perform in the Concert Band (for concerts, contests, and graduations), Marching Band, and Pep Band. Optional performance opportunities include Jazz Band for the annual Pops Concert, Solo & Ensemble Contest and musicals. (Credit – 1 Unit)

Chorus| 1212

Chorus is an elective course available to all students. Previous experience in singing and/or reading music is helpful but not required in order to participate. Students will learn how to use their developing voices through the teaching of proper singing techniques. Basic music theory and history are also taught through the use of quality performance literature in a wide range of styles. Students in Chorus are required to perform in the Concert Choir for concerts, contests, and graduation. Optional performance opportunities include singing our national anthem at sporting events, Solo & Ensemble Contest and musicals. (Credit – .25 Unit) It is hoped that participation in Band and/or Chorus will result in a life-long appreciation for music of all kinds, either as a performer or an informed listener.

Dual Credit American Music (Honors)| 1210

Dual Credit class for Senior. This course will meet the general requirement for a college humanities course. This course is a semester course. (Credit-.5) **Prerequisite: GPA of 3.0 and meet Parkland requirements**

Physical Education

Students are required to complete 4 units of PE and 1/2 Health

Health Education| 1111

Students are required to have ½ unit of Health education.

All sophomores are required to take and pass this one semester course which presents current and scientific knowledge related to health issues. Students are encouraged to develop an educational foundation to help them make responsible choices regarding their future health and well-being. (Credit- .5 unit)

Physical Education| 1317

Students are required to have 3.24 units of Physical education.

This course presents current knowledge and opportunities for students to engage in various physical activities throughout the year. Students are encouraged to utilize this experience to help develop physically active lifestyles. All students are required to take and pass this course. Only students with a WRITTEN doctor's excuse will be dismissed from Physical education classes.(Credit- 1 unit)

SCIENCES

Students are required to complete 3 units of Science.

Biology I | 3011

Biology I is an introductory course designed to broaden understanding and develop an interest in the science of life. It begins with a study of how we interact with the biosphere, and continues with cells, basic unit of life, the cell. As the course progresses, students will learn about genetics, heredity, and topics in modern biology. The course concludes with a survey of Earth's biodiversity. (Credit – 1 unit) **Prerequisite- Physical Science**

Chemistry (Honors ends with class of 2020)| 3031

Chemistry is an upper level science course to be taken in preparation for college course work and for students interested in majoring in science after graduation from high school. Chemistry requires the use of higher level thinking skills and problem solving as well as a background in math. This course is a Honors course and has rigorous curriculum requirements. Subjects covered in chemistry include; structure and changes of matter, atomic structure, chemical reactions, reaction rates, stoichiometry, thermochemistry, gas laws, bonding and solutions. Rigorous laboratory work is a critical portion of the course. This course is recommended for college entrance. (Credit- 1 unit) **Prerequisite - Geometry and Physical Science**

Forensic Science|3035

Forensic science is the application of science to the law and encompasses various scientific disciplines. This course will introduce various methodologies and applications used in the forensic context. Topics discussed include chemical analyses of physical evidence, principles of DNA analysis, ballistics, arson, fingerprint analysis, and document examination. Law and courtroom procedures from the perspective of the forensic scientist will also be examined. Through real-world lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students will learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions. (Credit- 1 unit)

Dual Credit BIO 105 Human Biology (Honors)| 3012

This course is an introduction to the human body. It will consist of 4 main themes: the chemistry of life, organization and regulation of the human body, comparative anatomy/physiology, and gene regulation/cancer. Humans will be investigated from their molecular level to the whole organism and beyond, including social impacts. In addition to regular, rigorous coursework, students will be expected to conduct independent study projects and present their findings at a research symposium in the spring semester. (Credit-1 unit) **Prerequisite- -Biology with a B or higher -Passing grade for chemistry or concurrent enrollment with a maintained passing grade. Parkland placement into English 101 or a SAT Reading/Writing (ERW) score of 480 or higher (ACT score of 20.**

Physical Science | 3022

This course is an introduction to chemistry and physics. The chemistry portion includes the study of matter, atoms, the periodic table, chemical reactions, solutions, acids and bases and nuclear changes. The physics portion covers motion, forces, work, energy, heat, light, sound, and electricity. Laboratory experiences are an integral part of this college preparatory course. It is a prerequisite for both chemistry and physics. It is recommended but not required that student take algebra at the same time. Physical Science is also open to students with a year of science upon teacher recommendation. (Credit- 1 unit) **Prerequisite-concurrent enrollment in Algebra**

Physics (Honors)| 3032

Physics is an upper level science course to be taken in preparation for college course work and for students interested in majoring in science after graduation from high school. This course is a Honors course and has rigorous curriculum requirements. The concepts covered in this course include; kinematics, dynamics, momentum, energy, fluids, thermodynamics, wave motions, optics and electricity. This course has rigorous and independent laboratories to emphasize the subjects covered. This course is recommended for college entrance and is restricted to seniors. Completion of chemistry is recommended. (Credit- 1 unit) **Prerequisites include physical science, Algebra I, Algebra II, and Geometry with concurrent enrollment in Pre-Calculus or Calculus or consent of instructor.**

SOCIAL STUDIES

Students are required to complete 2 units (must include U.S. History and Government).

AP U.S. History (Honors)| 4032

AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In AP U.S. History students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. **Prerequisites: There are no prerequisites for AP U.S. History. Students should be able to read a college-level textbook and write grammatically correct, complete sentences.** (Credit-1 unit)

Civics | 4042

This is a one-semester course that all students are required by state law to pass in order to graduate. It is strongly encouraged that students take this course during their sophomore year. The aims of the course are: to develop student understanding for the organization and functions of our local, state and national governments, and to develop student appreciation for citizenship and individual participation in government. The U.S. Constitution, Illinois State Constitution, and flag etiquette tests are taken in this course.(Credit –.5 unit)

Dual Credit Psychology 101 Introduction to Psychology (Honors)|9202

Introduction of scientific study of human and animal behavior. Survey of research and theories, emphasizing social behavior, intelligence, creativity, behavior disorders, therapy, language and personality development, learning, motivation, emotion, sensation, and perception. (Credit-.5 unit) **Prerequisites: Students must earn an ACT Reading and English score of 20 or SAT EBRW score of 480 or Acculplacer English 99 and CCS 099.**

Dual Credit Sociology 101 Introduction to Sociology (Honors)|9204

Principles and concept of general sociology: general education course in the social sciences; introductory course for the prospective sociology major. Application of scientific methods in study of social phenomena. (Credit-.5 unit) **Prerequisite: Students must earn an ACT Reading and English score of 20 or SAT EBRW score of 480 or Acculplacer English 99 and CCS 099.**

U.S. History | 4031

This is a two-semester course that all students are required by state law to pass in order to graduate. Fisher requires all juniors to take this course. This course consists of a study of American history from the beginnings of the U.S. Civil War through recent events in modern-day America. Throughout the course, social, cultural, economic, and political developments are emphasized. Focus will also be put on applying history to current events, as well as appreciation of our country and the responsibilities that go with the privilege of being a citizen. (Credit –1 unit)

World History | 4011

This is a general study, two-semester course of the story of man from the beginnings to the present time. This class will study the “human experience” and will emphasize cultural, economic, and political developments throughout history. Because this is a very broad area, focus will be put on certain specific time periods and civilizations. Open to freshmen and sophomores. (Credit – 1 unit)

Regional World Studies | 4013

This is a one-semester elective course that provides a comprehensive study of world geography by focusing on current issues and events of the world. The curriculum is structured to present the physical and cultural aspects of geography while also producing knowledgeable and responsible citizens of a global community. (Credit – .5 unit)

Other**Driver Education| 9011****Students are required to pass driver education**

All sophomores are required to take this one semester course. Classroom instruction will be given for one quarter. The second quarter will be a combination of assigned coursework (possibly a research paper or project), study hall and behind the wheel instruction. The six hours behind the wheel instruction will be arranged by a special schedule including pull out during study hall during fourth period and outside school hours. (Credit– .25 unit)

The state mandates the following effective January 1, 1994, requiring public and non-public high school students to successfully complete the previous two semesters of school work prior to eligibility for enrollment in a driver education course; prohibits licensed driver training schools or instructors from providing classroom or behind-the-wheel instruction to students who are ineligible to take the instruction.