

PINCKNEYVILLE COMMUNITY HIGH SCHOOL DISTRICT #101



"EXCELLENCE IN EDUCATION...NO EXCUSES"

2017 – 2018

**Course Description
Guide**

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PINCKNEYVILLE COMMUNITY HIGH SCHOOL
GRADUATION REQUIREMENTS

Overall Credit Requirement for Graduation: 28 Credits

The following classes are required for graduation from PCHS. These requirements meet both state and local mandates. All students will take the SAT test during their junior year. The SAT test is a state requirement for graduation.

1. Four (4) resident credits in English
2. Three (3) credits in each of the following areas: Math, Social Studies, and Science
3. Satisfy the Consumer Education requirement (Resource Management)
4. One (1) credits in Fine Arts
5. Four (4) Physical Education/Health, Drivers Education.
6. One (1) credit in Career Technical Education (CTE)

Special Note: Students will be allowed to earn up to three credits toward graduation requirements from outside sources. Students may only receive one credit per subject area from outside credit sources towards graduation requirements. (Example: Only 1 credit for English may be obtained from outside sources, all other English credits must be obtained in house.) Students must obtain pre-approval from the principal and work with the counselor to make appropriate arrangements. If you have any questions, ask first. Credit is given for classes taken off campus if used to make-up for courses failed. This will not count toward GPA. Make-up classes taken during the summer will not count toward GPA.

COLLEGE PREPARATORY RECOMMENDATIONS AND COLLEGE ENTRANCE REQUIREMENTS

The recommendations listed below are general in nature and will prepare the students to pursue academic work at the college level. Completion of these recommended subjects, however, does not guarantee admission. Colleges usually base their decisions on test scores, accumulative grade point averages, class rank, specific courses, type and quality of high school, and recommendations. Those students interested in college should make early contact with their guidance counselor and periodically discuss their intentions.

High School courses recommended for college-bound students:

- 4 credits – English
- 4 credits – Math
- 2 credits – Foreign Language, Art, Music or CTE
- 3-4 credits – Social Studies
- 3-4 credits – Science
- .5 credits – Consumer Education

The trend seems to be for colleges and universities to adopt tougher admission requirements. Several colleges and universities have adopted specific high school subject patterns that must be met in order to gain full admission status. Students are advised to check with their counselor about the requirements for the school of their choice.

COURSE SELECTION

Selection of one's courses is a very important decision. Hopefully, students will choose courses that are going to challenge them academically as well as prepare them for the future. Counselors are available to help you plan your high school career and beyond. Please see page 28 for course selection guides.

ENGLISH COURSES

ENGLISH I

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need

GRADE: 9

This course is designed to help students improve reading and writing skills. Students will improve individual deficit skills and utilize compensatory and study strategies.

ENGLISH II

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need

GRADE: 10

This course is designed to build upon reading and writing skills acquired in English I. Students will improve individual deficit skills and utilize compensatory and study strategies.

ENGLISH III

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need.

GRADE: 11

This course is designed to build upon reading and writing skills acquired in English II. Students will improve individual deficit skills and utilize compensatory and study strategies.

ENGLISH IV

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need.

GRADE: 12

This course is designed to build upon reading and writing skills acquired in English III. Students will improve individual deficit skills and utilize compensatory and study strategies.

READING 9

CREDIT: 1 (2 semesters)

PREREQUISITES: None

GRADE: 9

Reading 9 is designed to strengthen students' reading and writing skills. Literature studied includes short stories, dramas, and novels. Reading 9 moves at a less demanding pace than English I and focuses more on reading comprehension strategies for struggling students. There is an emphasis on providing students with reading strategies that will help them be successful throughout the rest of their high school English requirements. Literary units may be interspersed with both grammatical and writing units to emphasize and illustrate the main concepts relating to those units. A research paper is required.

**Students may be rescheduled at semester based on class performance and teacher recommendation.

READING 10

CREDIT: 1 (2 semesters)

PREREQUISITES: Prior to enrollment, students must pass both semesters of English I or Reading 9

GRADE: 10

The major focus of this course is to further improve the students' basic reading and writing skills and to heighten his/her interest in and understanding of various types of literature. This course moves at a less demanding pace than English II and focuses on a combination of reading and writing strategies to help students better understand literary concepts. Along with reading, students will practice creative, descriptive, and persuasive modes of writing. Literary selections include short stories and novels to illustrate certain literary elements. A research paper is required.

STRATEGIC READING

CREDIT: 1 (2 semesters)

PREREQUISITES: Prior to enrollment, students must have passed all semesters of English II (93%) and meet the state benchmarks on the PSAT test: Evidence Based Reading & Writing: 430

GRADE: 11

Strategic Reading includes the English III curriculum supplemented with advanced writing and literature material. The class focuses on reading for the purpose of writing. This college preparatory class concentrates on the development of college preparation skills, composition, analytical writing, vocabulary, world literature, and research. Higher-level thinking skills are emphasized. Students with a grade of 90% or higher in Strategic Reading may be considered for ENGL 1101 as a senior.

READING 12

CREDIT: 1 (2 semesters)

PREREQUISITES: Prior to enrollment, students must have passed all semesters of English I, II, and III.

GRADE: 12

This course continues to integrate reading and writing to provide students an opportunity to think coherently, to write clearly and effectively, and to read with understanding and appreciation. Responses to the literary works require varied levels of thinking skills measured through assessments of writing and reading comprehension. Students will continue to develop composition skills through a variety of reading and writing experiences. Literary works in this course focus on contemporary teen issues. A passing grade (70%) in this course will earn the student credit for ENGL 1401 (remedial English) at Rend Lake College.

ENGLISH I

CREDIT: 1 (2 semesters)

PREREQUISITES: None

GRADE: 9

Students may be rescheduled at semester based on class performance and teacher recommendation. English I will strengthen students' reading and writing skills. Students will read short stories, a play, novels, and an epic poem. Students will study literary terms as they apply to the various types of literature. Grammar will be studied as it relates to composition. A research paper is required.

ENGLISH II

CREDIT: 1 (2 semesters)

PREREQUISITES: Pass both semesters of English I or Reading 9 prior to enrollment in English II

GRADE: 10

9 (based on test scores and teacher recommendation)

Students may be rescheduled at semester based on class performance and teacher recommendation. The major focus of the course is to further improve students' writing skills and to increase their understanding of different types of literature. Students will read novels, short stories, and poetry. Emphasis is placed on grammar as it applies to sentence structure in composition. Students will write descriptive, creative, and expository essays. A research paper is required.

ENGLISH III

CREDIT: 1 (2 semesters)

PREREQUISITES: Pass both semesters of English II or Reading 10 prior to enrollment in English III

GRADE: 11 or 10 (based on test scores and teacher recommendation)

Students may be rescheduled at semester based on class performance and teacher recommendation. English III is designed with a focus on acquiring the organizational and grammatical skills needed to succeed not only in this class, but in other areas of study as well. A focus on American literature provides students the opportunity to read novels, short stories, and poetry and to reflect on them through narrative, persuasive, and informational writing.

ENGLISH IV

CREDIT: 1 (2 semesters)

PREREQUISITES: Prior to enrollment, students must pass both semesters of English III or Strategic Reading.

GRADE: 12

Students may be rescheduled at semester based on class performance and teacher recommendation. English IV is designed to provide students with an in-depth opportunity to develop skills to aid them in reading, writing, and applying the English language. The first semester focuses on research-based, argumentative, analytical, and narrative composition. The second semester will focus on public speaking with students presenting how-to, informative, persuasive, and epideictic speeches.

ENGL 1101 Rend Lake College – Rhetoric and Composition I (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Prospective students must meet two of the following criteria.

1. Achieve ACT College Readiness Scores: Reading 22, English 20

Or

Achieve SAT College Readiness Score: Evidence-Based Reading and Writing 490

****These scores must be reported to the guidance office, the principal's office, and to the English Department Chairperson prior to final course registration. Only scores reported prior to final course registration will be used to determine placement in conjunction with the stated criteria.**

2. Achieve 90% final grade in Strategic Reading III

3. Earn English Department Teacher Recommendation

****Both prospective students and their parents must agree to these prerequisites prior to students' placement in class.**

This class is offered as a dual-credit course in cooperation with Rend Lake College and will result in a weighted grade. The course employs the Rend Lake College English Department syllabus and grading rubric. According to the Rend Lake College Course Catalog, "The general objectives of the first semester composition course are to prepare the student for college work through teaching him or her to use the library, to read more effectively, and to write good expository prose based on personal observation and reading. Grade of "C" or better required for IAI. Lecture 3 hours."

ENGL 1102 Rend Lake College – Rhetoric and Composition II (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Completion of ENGL 1101 with a "C" or better

This class is offered as a dual-credit course in cooperation with Rend Lake College and will result in a weighted grade. The course employs the Rend Lake College English Department syllabus and grading rubric. According to the Rend Lake College Course Catalog, "General objectives of the second-semester composition course are the same as the first with more advanced application. A research paper is required. Grade of "C" or better is required for IAI. Lecture 3 hours."

English Elective (does not count for English credit)

JOURNALISM

CREDIT: 1 (2 semesters)

PREREQUISITES: Successful completion of English I; may be done concurrently with permission.

GRADE: 10-12

All aspects related to the publication of the school newspaper make up the course: caption and article writing, picture taking and selection, and page layout and enhancement in a web-based program. Student creativity and imagination will be encouraged along with the mastery of basic journalistic principles. (Course does not apply toward the English credit requirement.)

SOCIAL STUDIES

SOCIAL STUDIES I

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need

GRADE: 9

This course will cover the growth and development of early human civilizations up to industrialism.

SOCIAL STUDIES II

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need

GRADE: 10

This course will cover the latter part of world history up to the American Civil War.

SOCIAL STUDIES III

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need

GRADE: 11

This course will begin with post Civil War America and end with America in the modern world.

SSI

CREDIT: 1 (2 Semesters)

PREREQUISITES: None

GRADE: 9

Social Studies I is required of freshmen as part of an integrated social studies curriculum. The state and federal goals of history, government, geography, economics, and world cultures are examined through their historical perspective. The course will examine early civilizations through industrialism.

SSII

CREDIT: 1 (2 Semesters)

PREREQUISITES: SSI

GRADE: 10

Social Studies II is required of sophomores as part of an integrated social studies curriculum. The state and federal goals of history, government, geography, economics, and world cultures are examined through their historical perspective. The course will examine the latter scope of world history and end with the U.S. Civil War.

SSIII

CREDIT: 1 (2 Semesters)

PREREQUISITES: SSII

GRADE: 11

Social Studies III is required of juniors as part of an integrated social studies curriculum. The state and federal goals of history, government, geography, economics, and world cultures are examined through their historical perspective. The course will begin with post Civil War America and end with the United States in today's world.

SSIV**CREDIT: 1 (2 Semesters)****PREREQUISITES: SSIII****GRADE: 12**

The state and federal goals of government, geography, economics, and world cultures are examined through their current perspective. This current events class is based on the premise that various multi-media eventually become one's primary social studies text. It is a lens to the world after a solid understanding of the development of social, natural, and political systems provided by SS I, II, and III. Multi-media resources provide a "real life referent" for the teaching of social studies concepts and skills.

MATHEMATICS COURSES**PRE-ALGEBRA 1****CREDIT: 1 (2 semesters)****PREREQUISITES: IEP must identify need****GRADE: 9**

This course is designed to provide working knowledge of the basic fundamentals of math. Practice in applying reasoning skills is provided throughout the course. Some of the elementary ideas of algebra are introduced.

PRE-ALGEBRA 2**CREDIT: 1 (2 semesters)****PREREQUISITES: IEP must identify need****GRADE: 9-10**

This course provides a continuation of skill development initiated in Pre-Algebra 1. Basic math skills are reviewed with an emphasis on the concepts beyond the skills. Elementary ideas of geometry are introduced. Effort is made to apply the algebra and geometry concepts to practical problem situations.

LIFE SKILLS MATH**CREDIT: 1 (2 semesters)****PREREQUISITES: IEP must identify need****GRADE: 11**

This course provides students with math skills used in daily living. Units in understanding and calculating paychecks, managing checking accounts, creating personal budgets, comparison shopping, and measurement (time, money, length, capacity, weight) are presented.

FOUNDATIONS OF INTEGRATED MATHEMATICS**CREDIT: 1 (2 semesters)****PREREQUISITES: Score on placement test****GRADE: 9-10**

The students will use linear equations to represent, analyze, recognize, and solve a variety of problems. Students will grasp the concept of input and output in a function. Students will interpret models in the context of the data and express a relationship. Students will be able to use a coordinate plane to graph functions. Students will graph linear functions by use of a, x, and y tables and x and y intercepts. Students will recognize a linear function given a model. Students will use exponents and radical properties. Students will analyze two and three dimensional space figures using distance, angle, similarity, and congruence, apply the understanding into finding area and volume.

INTEGRATED MATHEMATICS I**CREDIT: 1 (2 semesters)****PREREQUISITES: Foundations of Integrated Mathematics and/or score on placement test****GRADE: 9-10**

The fundamental purpose of Mathematics I is to formulize and extend the mathematics that students learned in the middle grades. The components in Integrated Mathematics I deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Integrated Mathematics 1 uses properties

and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied. The eight Mathematical Practices Standards apply throughout each component.

INTEGRATED MATHEMATICS II

CREDIT: 1 (2 semesters)

PREREQUISITES: Integrated Mathematics I and score on placement test.

GRADE: 9-11

The focus of Mathematics II is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics I as organized into 6 critical areas. The need for extending the set of rational numbers arises and real and complex numbers are introduced so that all quadratic equations can be solved. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles, with their quadratic algebraic representations, round out the course. The eight Mathematical Practices Standards apply throughout each component.

INTEGRATED MATHEMATICS III

CREDIT: 1 (2 semesters)

PREREQUISITES: Integrated Mathematics II

GRADE: 10-12

It is in Math 3 that students pull together and apply the accumulation of learning that they have from their previous courses, with content grouped into four critical areas, organized into units. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. They expand their study of right triangle trigonometry to include general triangles. And, finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. The eight Mathematical Practices Standards apply throughout each component.

COLLEGE ALGEBRA/ TRIG (MATH 1108 & MATH 1109)

CREDIT: 1 (2 semesters)

PREREQUISITES: Integrated Math III and Scores on Placement Test

GRADE: 11 or 12

This class is offered as a dual credit class through Rend Lake College. This course covers complex numbers, quadratic equations, polynomial and rational inequalities, the algebra of functions, graphing functions, inverse functions, rational functions, polynomial functions, systems of equations, determinants, Cramer's Rule, the binomial theorem and other selected topics. Second semester covers definitions of trigonometric functions, graphing, formulas, identities, solution of triangles using trigonometric functions and logarithmic functions, solution of trigonometric equations, inverse trigonometric functions and their graphs, complex numbers and the solution of practical problems

CALCULUS (MATH 1121)

CREDIT: 1 (2 semesters)

PREREQUISITES: College Algebra/Trig (MATH 1108 and MATH 1109) with a "C" or better

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. A first course in calculus and analytic geometry. This course includes limits, techniques of differentiation, applications of the derivative, curve sketching, introduction to techniques of integration and applications of the definite integral. Lecture 5 hours.

TRANSITION ALGEBRA (MATH 1402)

CREDIT: 1 (2 semesters)

PREREQUISITES: Integrated Mathematics II. Must be needed to meet graduation requirements.

GRADE: 11 or 12

A course intended for those students who feel the need for an intensive review in the fundamentals of algebra. Topics to be covered include elementary algebraic operations, signed numbers, exponents and polynomials, simple equations, special products and factors, algebraic fractions and quadratic equations.

TRANSITION ALGEBRA II (MATH 1407)

CREDIT: 1 (2 semesters)

PREREQUISITES: Transitional Algebra I (MATH 1402).

GRADE: 12

A course intended for those students who feel the need for an intensive review of Geometry and Algebra II concepts. Geometry is covered first – basic terms/concepts, theorems, angles, congruent triangles, parallels and parallelograms, applications involving area, perimeter, volume circumference, ratio-proportion, similarities and regular polygons. Algebra topics – factoring, algebraic fractions, systems of equations, quadratic equations, exponents, radicals, and roots, graphing, functions, inequalities and selected topics.

SCIENCE COURSES

SCIENCE I, II, & III

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need

GRADE: 9-12

These courses are designed to help students understand what science is, how science and technology are related, and how the natural processes of the earth occur. Some topics discussed include, the processes of discovery, life science, earth science and physical science.

INTEGRATED SCIENCE I

CREDIT: 1 (2 semesters)

PREREQUISITES: Score on placement test

GRADE: 9

Integrated Science I is an initial science class that introduces Earth & Space science as well as Biology to students. During the first semester, students will be presented with information relevant to Geology, Weather & Climate, Oceanography, and Astronomy. The second semester places emphasis on cell structure and function, cellular transport, energy processes, mitosis, meiosis, and genetics.

INTEGRATED SCIENCE II

CREDIT: 1 (2 semesters)

PREREQUISITES: Integrated Science I

GRADE: 10

Integrated Science II provided continuation of the study and skill development initiated from Integrated Science I. During the first semester students will be presented with a basic knowledge of chemical principles such as classification & structure of matter, how to use and read a periodic table, chemical reactions, and acids & bases. During the second semester, emphasis will be placed on the presentation of basic concepts that are typically presented in a beginning level Physics class.

INTEGRATED SCIENCE III

CREDIT: 1 (2 semesters)

PREREQUISITES: Integrated Science II

GRADE: 11

Integrated Science III provides a continuation of the study and skill development initiated in Integrated Science I and Integrated Science II. Integrated Science III provides an emphasis on concepts relevant to the study of Ecology and Environmental Science, including ecological systems, biomes, populations, agriculture, forestry, and mining. This course also integrates graphical techniques and strategies to increase student success on the Science portion of the American College Test.

BIOLOGY**CREDIT: 1 (2 semesters)****PREREQUISITES: Integrated Science 1 or appropriate score on the placement test****GRADE: 9-10**

Biology is a course that has much to offer to high school students. It represents a valuable experience for the student who will be taking additional science but needs information relevant to biological structure and function, ecology, and other general biological relationships. College-bound students will benefit from the above topics as well as in-depth discussions of cellular structure and function, comparisons of the five kingdoms of life, taxonomy, and bio-chemical interactions. Laboratory experience is part of biology. This class includes a variety of laboratory experiments as well as work with compound light microscopes. Biology is an essential base to advanced science department courses of human anatomy and chemistry.

MICROBIOLOGY (COLLEGE PREP CLASS)**CREDIT: ½ (1 semester)****PREREQUISITES: Must have passed both semesters of Biology****GRADE: 10-12**

This course promotes an understanding of the microbial world, especially in their structures, functions and diversity. It reviews the basic biological principles as applied to microorganisms and emphasizes the diversity among them. The course introduces new advances in molecular research in dealing with microbial diversity, ecology and niche differentiation. The course stresses microbial roles in biogeochemical cycling of elements in nature, and global importance of microorganisms in industry and medicine. It also promotes a balanced view of beneficial vs. harmful effects of microorganisms on the environment and human health and society.

GENETICS (COLLEGE PREP CLASS)**CREDIT: ½ (1 semester)****PREREQUISITES: Must have passed both semesters of Biology****GRADE: 10-12**

The course promotes an understanding of principles and cellular mechanisms of inheritance, theoretical and experimental basis, practical applications and regulatory mechanisms of DNA, RNA, and protein synthesis. Topics addressed also include cell type and cell cycle, genes in pedigrees, DNA mutation and repair, comparative genomic evolution, genetic mapping of mendelian characters, genetic mapping of complex characters, identifying human disease genes, as well as updates on the human genome project.

CHEMISTRY I**CREDIT: 1 (2 semesters)****PREREQUISITES: Must have passed both semesters of Biology & Integrated Math I****GRADE: 10-12**

Chemistry I is a course that would benefit any student planning a college-bound sequence, especially those pursuing any scientific or health-related career. This introductory chemistry course is designed to give students a basic knowledge of chemical principles. Topics expanded upon include matter and change, scientific measurement, atomic structure, chemical bonding, and periodicity. Naming chemical compounds, writing chemical equations, and stoichiometry are also highlighted. Laboratory exercises will be provided to emphasize concepts discussed.

CHEMISTRY II (COLLEGE PREP CLASS)**CREDIT: 1 (2 semesters)****PREREQUISITES: Chemistry I and Algebra II or concurrent enrollment****GRADE: 11-12**

Chemistry II is a course that would benefit any student planning a college-bound sequence, especially those pursuing any scientific or health-related career. It is especially beneficial to those students who know they will be taking a chemistry course in college. Chemistry II is a rigorous course that is a continuation of the concepts introduced in Chemistry I. Previous topics will be reviewed and expanded upon. New topics introduced will be concepts of percent composition, stoichiometry, limiting reactants,

percent yield, gas behavior, solutions, thermochemistry, reaction rates/equilibrium, acids/bases, oxidation-reduction, electrochemistry, and organic chemistry. Laboratory exercises will be provided to emphasize concepts discussed.

PHYSICS (COLLEGE PREP CLASS)

CREDIT: 1 (2 semesters)

PREREQUISITES: Chemistry I and Algebra II (or concurrent enrollment)

GRADE: 11-12

Physics I is a course that would benefit any student planning a college-bound sequence, especially those pursuing any scientific, engineering, or mathematics-related career. This course is designed to introduce the student to the basic concepts of physics. The concepts covered include motion in two dimensions, acceleration, Newton's Laws of motion, energy, work, linear momentum, rotational motion, heat/thermodynamics, sound, light, electricity, and magnetism. Laboratory exercises will be provided to emphasize concepts discussed.

HUMAN ANATOMY

CREDIT: 1 (2 semesters)

PREREQUISITES: Must have passed both semesters of Biology

GRADE: 12

Human anatomy provides students with fundamental concepts in anatomy (structure) and physiology (function). Course material contains general information on a wide range of topics that are relevant to the health and well being of not only students but all members of the community in which they live. The course is designed to help students prepare for higher education, to further their studies in the area of biological interest, or to enter a health-related profession.

PHYSICAL EDUCATION/HEALTH/DRIVER'S EDUCATION DEPARTMENT

PHYSICAL EDUCATION

CREDIT: 1 (2 semesters) or ½ (1 semester)

PREREQUISITES: None

GRADE: 9-12

This course includes instruction in seasonal team sports such as basketball, football, volleyball, soccer, speedball, wrestling, gymnastics, weightlifting, softball, field hockey, badminton, archery, aerial darts, cross country, and track and field events. Also included are physical fitness exercises and testing. Each student is required to have a clean blue uniform, white socks, tennis shoes, towel and soap. Locks are provided for individual lockers.

ADVANCED PHYSICAL EDUCATION & TRAINING

CREDIT: ½ (1 Semester)

GRADE LEVEL: 10-12

PREREQUISITES: NONE

This course uses advance physical training techniques to develop the 6 components skill-related fitness: Agility Balance, Coordination, Speed, Power, and Reaction Time.

HEALTH

CREDIT: ½ (1 semester)

PREREQUISITES: None

GRADE: 9-10

Health class is a semester course. Students will learn to take control of their personal, physical and emotional well-being. The class will focus on total health, with emphasis in nutrition, fitness, prevention and control of disease, substance use and abuse. Students will be provided practical skills and real world applications that encourage them to become responsible for their own well-being throughout life.

DRIVER EDUCATION**CREDIT: ¼ (1 quarter)****PREREQUISITES: None****GRADE: 9-10**

The objective of the driver education program is to teach students to be safe, courteous, and skilled drivers. Classroom concepts are illustrated in practice driving instruction. The classroom phase of the course consists of thirty clock hours of instruction utilizing methods such as lecture, discussion, and audio-visual aids. The driving phase consists of six clock hours of behind the wheel practice with a dual control automobile, which provides practical learning experiences for the student. With the passage of Illinois Public Law 88-188, any student enrolled in Driver Education must have passed eight academic credits over the previous two semesters. Law does not otherwise permit enrollment. Also, with the passage of the Graduated Driver Licensing System in Illinois, parents must verify that their student has obtained a minimum of 50 clock hours of practice before a license will be granted. Additionally, student drivers must have held a learner's practice permit for a minimum of 9 months. Questions regarding these new guidelines should be referred to any PCHS Driver Education teacher.

FINE ARTS DEPARTMENT**BEGINNING BAND****CREDIT: 1/2 (1 semester)****PREREQUISITES: Must have an approved instrument or purchase an approved instrument.****Teacher can help with obtaining rental or purchasing of instrument.****GRADE: 9-12**

Students will be taught the basics of playing a band instrument. Students that advance can be included in regular band 2nd semester. Can be students with no background or students that may have played an instrument in the past.

BAND**CREDIT: 1 (2 semesters)****PREREQUISITES: None****GRADE: 9-12**

First and second year high school band students will be expected to participate in the Concert Band, Marching Band, and Pep Band. The students will experience all new musical selections each year and will study a variety of musical styles, rhythmic figures, and composers. Course requirements include over thirty public performances yearly including football games, basketball games, parades, and contests. Students will be encouraged but not required to participate in the state solo and ensemble contest. Third and fourth year high school band students will be required to fulfill all objectives expected of first and second year students. In addition, students will be responsible for additional leadership responsibilities and must participate in state contests. Proper equipment management, an increased involvement in clinics, festival, concerts, tutoring of younger students and advanced training with a private instructor will be used to determine a grade and credit.

AUXILIARY BAND**CREDIT: ½ (1 semester)****CO-REQUISITES: Band (Students must be selected by audition held in the spring)****GRADE: 9-12**

This course is for students who participate in the Marching Panther flag squad whose members are active in band during the first and second quarters of the school year. The course of study includes detailed marching instruction; use of flags or other props to help convey the feeling of music; learning to master the use of the guard equipment; working together as a group to achieve a common goal, learning cooperation, leadership, and responsibility, as well as developing a sense of pride in achieving these goals. Students will also learn to relate their movements and enhancements to the overall picture and musical performance, and learn basic counting patterns in the musical selections.

JAZZ BAND**CREDIT: 1 (2 semesters)****PREREQUISITES: Must be in regular band class and have approval of instructor.****GRADE: 9-12**

Jazz Band will provide to students instruction in the jazz idiom and style. Participation in performances outside of class will provide a large basis of the course grade.

CHORUS**CREDIT: 1 (2 semesters)****PREREQUISITES: None****GRADE: 9-12**

First and second year high school chorus students will be expected to participate in all choral activities. These include Christmas concert, spring concert, baccalaureate and other activities as scheduled. Students will be encouraged to participate in state solo and ensemble contests. Students will experience all new musical selections each year and will study musical styles and rhythmic figures. Third and fourth year high school chorus students will be required to fulfill all objectives expected of first and second year students. An increased involvement in clinics and state solo and ensemble contest will also be required. Grades and credit will be granted on the basis of a successful completion of all of the established objectives.

MUSIC ENRICHMENT AND MUSIC APPRECIATION**CREDIT: ½ (1 semester)****PREREQUISITES: None****GRADE: 9-12**

Students will experience an in-depth study of music including: music history, music theory, music technology, music composition, and music appreciation. The course is open to all grade levels and will be a semester class.

ART I - FOUNDATIONS**CREDIT: 1 (2 semester)****PREREQUISITES: None****GRADE: 9-12**

An entry-level course designed for all students to develop creative abilities through artistic expression. The fundamental principles & elements of the art making process will be studied and practiced during the length of the course. Students are required to participate in classroom exercises, discussions, written responses, and the making of sketches/projects in pencil, charcoal, pastel, watercolor, and various other types of media. Students will learn about many different artists, art movements, and art making techniques to express themselves through their artwork.

ART 2**CREDIT: 1 (2 semester)****PREREQUISITES: Art I, Drawing, or special permission****GRADE: 10-12**

This is a continuation of Art 1, many of the same materials will be used for more complicated and detailed projects. Printmaking projects will be taught including foam, wood block and linoleum block prints. 3D media will also be explored including modeling clay, cardboard construction, and other mixed-media projects.

DRAWING**CREDIT: 1 (2 semester)****PREREQUISITES: None****GRADE: 10-12**

Students will learn all of the basics to becoming a skilled drawer and observer. Daily drawing exercises, including observation, perspective, proportion, figure, illustration and portrait drawing. Materials being used will include graphite pencils, pen and ink, inked brushes, wax color pencils, crayons,

charcoal, chalk, pastels, various kinds of erasers, markers, styluses, electronic drawing and wire. This is for the young artist who would like to explore black and white compositions.

FOREIGN LANGUAGE COURSES

SPANISH I

CREDIT: 1 (2 semesters)

PREREQUISITES: None

GRADE: 9-12

This class is the introductory course to the study of Spanish as a second language. Topics include vocabulary, grammar, sentence structure and basic sound formations as well as the geography, history and culture of Spanish speaking countries. Exercises in all 4 domains of language acquisition are conducted daily: speaking, listening comprehension, reading and writing.

SPANISH II

CREDIT: 1 (2 semesters)

PREREQUISITES: Spanish I

GRADE: 10-12

This class is a continuation of SPANISH 1 with a focus on increasing vocabulary in order to allow the student to speak on a variety of topics and improvement of speech, comprehension, reading and writing abilities. Exercises are conducted daily in all 4 domains of language acquisition. As in Spanish 1, geography, history and culture are referenced throughout the class.

SPANISH III

CREDIT: 1 (2 semesters)

PREREQUISITES: Spanish II

GRADE: 11-12

This class is a continuation of SPANISH 2 with a focus on increasing vocabulary in order to allow the student to speak on a variety of topics and increased improvement of speech, comprehension, reading and writing abilities. Exercises are conducted daily in all 4 domains of language acquisition. As in previous courses, geography, history and culture are referenced throughout the class.

SPANISH IV

CREDIT: 1 (2 semesters)

PREREQUISITES: Spanish III

GRADE: 12

This class is a continuation of SPANISH 3 and is offered as a dual credit class through Rend Lake College. The class serves to review all the vocabulary and concepts introduced throughout the previous 3 years of study and to master speech as well as comprehension, reading and writing skills. The class is conducted in Spanish with references to English when necessary. As in previous courses, geography, history and culture are referenced throughout the class.

BUSINESS EDUCATION COURSES

COMPUTER APPLICATIONS/KEYBOARDING I (12005A001)

CREDIT: ½ (1 SEMESTER)

PREREQUISITE: NONE

GRADES: 9-10

This course is designed to develop basic skills in touch keyboarding techniques for entering alphabetic, numeric, and symbol information found on computers. Students will learn to edit and format text, change fonts, work with headers and footers, cut and paste text and use other word processing features. During the second half of the course, students will format business documents such as memorandums, letters, and reports. Major emphasis is placed on improving proofreading skills and increasing speed and

accuracy. Students will explore topics related to computer concepts, operating systems, telecommunications, and emerging technologies.

COMPUTER APPLICATIONS II (10004A001)

CREDIT: ½ (1 SEMESTER)

PREREQUISITE: COMPUTER APPLICATIONS I

GRADES: 9-10

Computer Applications II is a course designed to teach students how to use a computer as a business and personal tool through the use of application software. Office 2013 applications including PowerPoint (presentation), Excel (spreadsheet), and Access (database) will be used. Students will apply problem-solving skills to hands-on, real-life situations using the Office 2013 Suite. The development of employability skills, as well as transition skills, will be included in the course to provide an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases.

GRAPHIC DESIGN I (11154A001)

CREDIT: 1/2 (1 SEMESTERS)

PREREQUISITE: COMP APP I

GRADES: 10-12

Students will be introduced to basic elements and principles of design including text, shape, color, mass, texture, proximity, balance, repetition and contrast. A variety of software will be available for students to use to complete assignments and projects.

GRAPHIC DESIGN II (11154A002)

CREDIT: 1/2 (1 SEMESTERS)

PREREQUISITE: COMP APP I & GRAPHIC DESIGN I

GRADES: 10-12

In this course, students will apply the Elements and Principles of Design using Adobe Photoshop. Students will learn how to work with layers, make selections, incorporate color techniques, and place type in an image. The focus will then shift to using painting tools, working with special layer functions, creating special effects with filters, and enhancing specific selections. Finally, students will learn about adjusting colors, using clipping masks, paths, and shapes, transforming type, liquefying an image, performing image surgery, annotating and automating an image.

BUSINESS & TECHNOLOGY CONCEPTS (12001A001)

CREDIT: ½ (1 SEMESTER)

PREREQUISITE: NONE

GRADE: 9-10

In this introductory level course, students will be exposed to an orientation to business, marketing, and management concepts, including business principles, business communications, and business computation. Areas of study will include basic business principles, types of economic systems, the U.S. market economy, types of businesses, forms of business ownership, an introduction to the stock market, and global business.

ACCOUNTING I (12104A001)

CREDIT: 1 (2 SEMESTERS)

PREREQUISITE: NONE

GRADE: 10-12

Accounting I includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial records including the paying and receiving of money. Units of study include keeping financial records; accounting computer theory and/or applications, basic fundamentals and terminology of accounting, preparing financial reports, and operating related business machines and equipment.

ACCOUNTING II (12104A002)
CREDIT: 1 (2 SEMESTERS)
PREREQUISITE: ACCOUNTING I
GRADE: 11-12

Accounting II will build upon the skills learned in Accounting I. Students will develop a deeper knowledge of the principles of accounting with emphasis being placed on financial statements and accounting records. Students will study previously learned principles as they apply in business. Units of study will include types of business organizations, cost accounting, tax accounting, payroll accounting, and preparing financial and budget reports.

ACCOUNTING III
CREDIT: 1 (2 SEMESTERS)
PREREQUISITE: ACCOUNTING II
GRADE: 12

Accounting III is designed to reinforce basic accounting concepts and procedures learned in Accounting I and II and then to further expand on these concepts and procedures. In addition the student will learn to develop more than one possible solution for a given circumstance and then select and apply the best choice. Topics covered relate to departmental and payroll accounting, automated accounting, deferrals and accruals, management accounting, and cost accounting, as they relate to partnerships, corporations and not-for-profit organizations.

BUSINESS LAW (12054A001)
CREDIT: ½ (1 SEMESTER)
PREREQUISITE: BUSINESS & TECHNOLOGY CONCEPTS
GRADE: 10- 12

Business Law focuses on both the substance and the process of our legal system and reflects many social and ethical issues. Students will become familiar with contracts, real and intellectual property, the buyer and seller relationship, bailments, employment law, the debtor/creditor relationship, as well as a variety of other law topics. Actual legal cases are studied and the rules of law are discussed and analyzed. Students will have the opportunity to observe court proceedings at the Perry County Courthouse.

MARKETING (12164A001)
CREDIT: ½ (1 SEMESTER)
PREREQUISITE: BUSINESS & TECHNOLOGY CONCEPTS
GRADE: 10- 12

Marketing offers students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content includes marketing principles such as purchasing, distribution, and sales; however, a major emphasis is placed on kinds of markets; market identification; product planning, packaging, and pricing; and business management.

FAMILY AND CONSUMER SCIENCES

LEARNING FOR INDEP, FAMILY & EMPL (LIFE)
CREDIT: ½ (1 semester)
PREREQUISITES: None
GRADE: 9-10

Maximum of 16

This is a basic course that includes the classroom and laboratory experiences needed to develop knowledge and understanding in the foundation areas of human development and health, interpersonal and family relationships, child care, housing, interior design, and clothing and textiles, as well as resource management and an introduction to the world of work. Learning experiences assist students in their awareness of today's world and the nature of the family and consumer sciences field and related careers.

FOOD AND NUTRITION I**CREDIT: ½ (1 semester)****PREREQUISITES: None****GRADE: 9-12****Maximum of 20**

This course is intended to provide students with the essential information necessary to make informed and intelligent choices regarding the selection, preparation, and serving of nutritionally sound foods. Food and Nutrition I provides a basis for further study in the vocational and occupational career area.

FOOD AND NUTRITION II**CREDIT: ½ (1 semester)****PREREQUISITES: Food and Nutrition I****GRADE: 10-12****Maximum of 20**

This how-to course will provide students with classroom and laboratory experience needed to know and understand basic food principles and applied nutrition concepts for people of all ages. Units of study will include: safety and sanitation measures when preparing food; basic principles of cookery; cooking terms and the application of them; decision making for preparation techniques that produce satisfying meals; resource utilization when planning, preparing and serving food, careers in foods and nutrition; and preparation of a wide variety of foods. This course will be taught using various means of demonstration, laboratories, class handouts, and multi-media resources and study guides.

CHILD DEVELOPMENT**CREDIT: ½ (1 semester)****PREREQUISITES: LIFE****GRADE: 10-12****Maximum of 25**

This course emphasizes learning experiences that help students gain knowledge and understanding of the intellectual, physical, social, and emotional development of children from conception through adolescence. The course content centers around the following areas: promoting positive self-esteem in children, applying decision-making and goal-setting skills, promoting child development by applying physical, social, intellectual and emotional principles, practicing health and safety standards for children, and providing experiences through lab projects, preparing teaching units to incorporate when interacting with the Pre-K children. Information related to careers in childcare is incorporated throughout the course.

PARENTING**CREDIT: ½ (1 semester)****PREREQUISITES: LIFE****GRADE: 10-12****Maximum of 25**

This course is designed to help students think through the responsibilities, satisfactions, and stresses of parenthood, as well as financing as a parent, picking a feasible career, and choosing a suitable spouse. Many types of parenting situations are examined. Stress prevention and management and the work of community agencies that help parents deal with various types of parenting crises are emphasized. The course content includes the following duty areas: managing and organizing parenting by applying decision-making and goal-setting skills, applying the basic principles of the parenting process, practicing health and safety standards as related to parenting, providing experiences which encourage parents and children to maximize resources, encouraging human relation skills in children/adolescents, and evaluating impact on parenting of family and career changes. Attention is given to studying pregnancy and care of children from birth through the adolescence. Realityworks Real Care® Baby II-Plus computerized simulators are an essential part of the class.

FOOD SERVICE OCCUPATIONS I (Panther Bakers)**CREDIT: 1 (2 semesters)****PREREQUISITES: Food and Nutrition II****GRADE: 11-12****MAXIMUM OF 20**

This course provides students interested in a career in food service with the information and practical experiences needed for the development of food service job-related skills. The students receive laboratory experiences using home and commercial equipment to prepare food in small and large quantities. Training experiences involve equipment and facilities, which simulate those, found in business and industry. Emphasis is placed on food facility management, cake decoration, and catering large and small functions.

CLOTHING & TEXTILES I**CREDIT: ½ (1 semester)****PREREQUISITES: Pass LIFE****GRADE: 10-11****Maximum of 16**

Clothing and Textiles is designed to help students develop knowledge, understanding, and experiences in fashion, fabric and textiles, and to assist them in meeting their needs. The students will develop competencies in the following areas: selecting clothing and textile products; fashion; sewing, altering, repairing and remodeling clothing; costuming; creating home accessories; and exploring clothing-related careers.

CLOTHING & TEXTILES II**CREDIT: ½ (1 semester)****PREREQUISITES: Pass LIFE****GRADE: 11-12****Maximum of 16**

This project-based course focuses on the implementation and recognition of design principles in selecting, constructing, altering, and remodeling products. Project management skills, including efficient use of time, materials, technique, and tools are incorporated throughout the course. Topics include: engineered fabric constructions; fiber and textile trends; color therapy; principles of design; industry construction techniques; use of industry tools, equipment, and terminology; knowledge of resources and vendors; research and evaluation of textile products for special needs populations; impacts of technology; construction, alteration and re-design skills; and simple flat pattern design and recognition.

RESOURCE MANAGEMENT**CREDIT: ½ (1 semester)****PREREQUISITES: None****GRADE: 11 (Junior Requirement)**

Resource Management fulfills the state consumer education requirement. Units of study include consumer ethics, credit, banking, budgeting, rights and responsibilities of the consumer, buying goods and services, including food, clothing, insurance, transportation, and housing.

LIVING ENVIRONMENTS**CREDIT: ½ (1 semester)****PREREQUISITES: Pass LIFE****GRADE: 11-12**

This course provides basic knowledge and skills needed to select, acquire, maintain, and manage living environments that meet the needs of the occupants. The selection and care of housing and furnishings are related to factors such as social-economic conditions, individual tastes, psychological effects, aesthetic values, safety, sanitation, and energy conservation.

ADULT LIVING**CREDIT: ½ (1 semester)****PREREQUISITES: Pass LIFE****GRADE: 11-12**

This course is designed to assist individuals and families in achieving life satisfaction through responsible participation as adults in the home, community and workplace. Emphasis is placed on the development of prevention strategies that will assist individuals in responding to situations in terms of their identified values and goals.

INDUSTRIAL OCCUPATIONS**INTRODUCTION TO INDUSTRY****CREDIT: 1 (2 Semesters)****PREREQUISITES: None****GRADES: 9-10****Maximum of 16**

This course is designed to inform students about today's industrial world, the kinds of industries in our region, and those in which we will be offering programs. It is designed to expose students to a variety of occupations and provides minimum basic skill development that will enable students to make meaningful decisions about which industrial occupations area to pursue. Through a variety of training activities, students will be exposed to career opportunities in four areas of study. The class will be broken into quarterly activities. Drafting/Communication will allow students to create basic technical drawings and learn how to read them. Wood shop will introduce the various woodworking tools and techniques and get students familiar with tool safety. Metals will introduce students to welding and sheet metal working techniques at a basic level. Finally, Power will get students familiar with the mechanical aspects of engines, different types of power sources, and aerodynamic principles. The goal of this class is to give students a taste of the different areas that they can study more in depth in other classes.

INTRODUCTION TO CONSTRUCTION**CREDIT: ½ (1 semester)****PREREQUISITES: Introduction to Industry****GRADE: 10-11****Maximum of 16**

This introductory course deals with a variety of skills associated with construction occupations. It provides students with a study of basic skills needed in the area of building construction. Units of study include career opportunities in construction trades; basic safety practices and principles; basic construction tools and how they operate; standard building materials; basic blueprint reading; and building concepts and procedures. Learning experiences are designed to teach students about construction occupations and help students develop basic knowledge and skills for use in upper-level construction courses. Students will also be taught employability skills, vocational ethics, generalized skills, and transition skills.

INTRODUCTION TO MANUFACTURING**CREDIT: ½ (1 semester)****PREREQUISITE: Introduction to Industry****GRADE: 10-11****Maximum of 14**

This course will foster an awareness and understanding of manufacturing and construction technology. Students will be exposed to career opportunities in this field. Experiences will include product design, materials and processes, tools and equipment including computers, safety, corporate structure, management, research and development, marketing and service. Students will be exposed to site preparation, foundations, building structures, installing utilities, finishing and servicing structures.

CONSTRUCTION I**CREDIT: 1 (2 semesters)****PREREQUISITES: Introduction to Industry, or Introduction to Construction, or Introduction to**

Manufacturing

GRADE: 11-12

Maximum of 14

Construction I will provide students with experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Units of study will include a review of safety practices and principles, building principles, footings, foundations, and basement layout methods, as well as local, state, and national codes. A study of cost estimating, reading and interpretation of blueprints, floor, wall, ceiling, and roof framing, application of roofing materials, installation of exterior doors and windows, application and installation of soffit/facia and guttering, layout and construction of sidewalks, porches, and driveways, grade yards, observation and discussion of plumbing, heating, air-conditioning, rough and residential wiring are also included. This program is designed to equip students with basic employability skills in the construction occupations. Apprenticeship programs may be available (on an individual basis).

MANUFACTURING I

CREDIT: 1 (2 semesters)

PREREQUISITES: Introduction to Industry, or Introduction to Construction, or Introduction to Manufacturing

GRADE: 11-12

Maximum of 14

This course will provide more in-depth learning experiences than was covered in Manufacturing 1. Principles of ferrous and non-ferrous production will be stressed to provide students with added information in manufacturing. Units of instruction will include those in Manufacturing 1 and the following:

- Metal preparation and painting
- Working with abrasives
- Working with non-ferrous metal
- Destructive and non-destructive testing of materials
- Ferrous and non-ferrous production process

Note: Students may not enroll in both classes as in each class covers the same content during the year. One semester is woodworking and one semester is machine shop and welding. Construction 1 will be woodworking first semester and metalworking second semester. Manufacturing will be metalworking first semester and woodworking second semester.

INDUSTRIAL ARTS CAD I

CREDIT: .5 (1 semesters)

PREREQUISITES: Introduction to Industry

GRADE: 11-12

Maximum of 14

Experiences provided will reinforce basic skills and practices as learned in Introduction to Technology and Drafting Fundamentals using the computer as a modern drafting tool. Experiences with CAD will be provided to learn the new language and communication forms of industry using AutoCAD or similar programs utilized in industry. Many of the required exercises will focus on Mechanical Drafting and will duplicate several of the drawings from Drafting Fundamentals.

INDUSTRIAL ARTS CAD II

CREDIT: .5 (1 semesters)

PREREQUISITES: Introduction to Industry, CAD I with an A or B

GRADE: 11-12

Maximum of 14

This class will carry on with the skills introduced in the previous class and provide the student with other experiences using other software. Students will use several programs to render drawings in 3D, much like the modeling software currently used in animated movies. Students will use these generated drawings to print scale models on a 3D printer.

TRANSPORTATION TECHNOLOGY

CREDIT: .5 (1 semesters)

PREREQUISITES: NONE

GRADE: 9 -10

Maximum of 14

This class is an overview of transportation systems past and present. Topics include: engines, aerodynamics, propulsion systems, and modes of transportation. Students will partake in many hands on projects to explore the principals behind how people are moved around the world.

AUTO TECH I

CREDIT: .5 (1 semesters)

PREREQUISITES: NONE

GRADE: 10 -12

Maximum of 14

This class is a study of the engines and transmissions used in both modern and antique automobiles and equipment. The class will involve classroom theory where the ideas and techniques are presented and discussed as well as shop work where students will put what they have learned into practice. Basic automotive maintenance will also be covered and time will be provided for students to perform preventative maintenance as well as repairs on their own vehicles.

AUTO TECH II

CREDIT: .5 (1 semesters)

PREREQUISITES: NONE

GRADE: 10-12

Maximum of 14

This class is a study of automotive brakes, suspension, and body repair. The class will involve classroom theory where the ideas and techniques are presented and discussed as well as shop work where students will put what they have learned into practice. Basic automotive maintenance will also be covered and time will be provided for students to perform preventative maintenance as well as repairs on their own vehicles.

AGRICULTURE

INTRODUCTION TO THE AGRICULTURAL INDUSTRY

CREDIT: 1 (2 semester)

PREREQUISITES: None

GRADE: 9-10

Maximum of 20

This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. 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.

BASIC HORTICULTURAL SCIENCE

CREDIT: 1 (2 semesters)

PREREQUISITES: Introduction to Agriculture Industry

GRADE: 10-12

Maximum of 18

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant

propagation, growing media, pest management, identifying horticultural plants, growing greenhouse crops, and floral design. 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.

BASIC AGRICULTURAL SCIENCE

CREDIT: 1 (2 semesters)

PREREQUISITES: Introduction to Agriculture Industry

GRADE: 10-12

Maximum of 20

This course builds on basic skills and knowledge gained in the Introduction to the Agricultural Industry course. Major units of instruction include agricultural research, soil science, advanced plant science, biotechnology, and advanced animal science. Applied science and math skills and concepts will be stressed throughout the course as they relate to each area. 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.

AGRICULTURAL BUSINESS MANAGEMENT

CREDIT: ½ (1 semester)

PREREQUISITES: Introduction to Agriculture Industry

GRADE: 11-12

Maximum of 20

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and /or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. 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. (Resource Credit)

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURAL – PLANTS (BSAA PLANTS)

CREDIT: ½ (1 semester)

PREREQUISITES: Introduction to Agriculture Industry and Biology

GRADE: 11-12

Maximum of 20

This course is designed to reinforce and extend students understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth – germination, plant sensory mechanisms, enzyme action, absorption, and managing plant growth – photosynthesis, respiration, translocation, metabolism, and growth regulation. 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. (Science Credit)

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURAL – ANIMALS (BSAA ANIMAL)

CREDIT: ½ (1 semester)

PREREQUISITES: Introduction to Agriculture Industry and Biology

GRADE: 11-12

Maximum of 20

This course is designed to reinforce and extend students understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of animal agriculture and specific biological science concepts that govern management decisions in the animal industry. Topics of study are in the areas of growth and development of animals – embryology, ethology, 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. (Science Credit)

DUAL CREDIT OFFERINGS

BIO 1100 – Biology for Non-Majors (4)

CREDIT: ½ (1 semester)

PREREQUISITES: Scores on Placement Test and cumulative GPA of 3.0

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. For students who are non-majors but want a general knowledge of biology. An introduction to biology and the nature of science, as well as historical and modern applications of biology to other sciences and society. Topics include organisms and ecology, Mendelian genetics and evolution, bio-chemistry, DNA, cell organization and energy transformations in cells. Lecture 3 hours. Lab 2 hours.

ENGL 1101 – Rhetoric and Composition I (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Must meet ACT score of: Reading: 21, English: 20 and cumulative GPA of 3.0

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. The general objectives of the first-semester composition course are to prepare the student for college work through teaching him or her to use the library, to read more effectively and to write good expository prose based on personal observation and reading. Grade of “C” or better required for IAI. Lecture 3 hours.

ENGL 1102 – Rhetoric and Composition II (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Completion of ENGL 1101 with a “C” or better

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. General objectives of the second-semester composition course are the same as the first with more advanced application. A research paper is required. Grade of “C” or better required for IAI. Lecture 3 hours.

MATH 1108 – College Algebra (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Integrated Math III and Scores on Placement Test

GRADE: 11 or 12

This class is offered as a dual credit class through Rend Lake College. This course covers complex numbers, quadratic equations, polynomial and rational inequalities, the algebra of functions, graphing functions, inverse functions, rational functions, polynomial functions, systems of equations, determinants, Cramer’s Rule, the binomial theorem and other selected topics. Lecture 3 hours.

MATH 1109 – Plane Trigonometry (3)

CREDIT: ½ (1 semester)

PREREQUISITES: MATH 1108 with a “C” or better

GRADE: 11 or 12

This class is offered as a dual credit class through Rend Lake College. A course dealing with definitions of trigonometric functions, graphing, formulas, identities, solution of triangles using trigonometric functions and logarithmic functions, solution of trigonometric equations, inverse trigonometric functions and their graphs, complex numbers and the solution of practical problems. Lecture 3 hours.

MATH 1121 – Calculus and Analytic Geometry I (5)

CREDIT: ½ (1 semester)

PREREQUISITES: MATH 1108 and MATH 1109 with a “C” or better

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. A first course in calculus and analytic geometry. This course includes limits, techniques of differentiation, applications of the derivative, curve sketching, introduction to techniques of integration and applications of the definite integral. Lecture 5 hours.

POLI 2101 – American Government (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Scores on Placement Test and cumulative GPA of 3.0

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. A study of the origin, nature and purpose of the national government. The structure, functions and powers of government in current affairs are emphasized. Attention is given to the relationship of the citizen and interest groups to government in order to create knowledge and leadership potential that will be transformed into practical demonstrative service. Successful completion of this course is evidence of having passed the State and Federal Constitution Test. Lecture 3 hours.

PSYC 2101 – Introduction to Psychology (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Scores on Placement Test and cumulative GPA of 3.0

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. An introductory course in the scientific study of affect, behavior and cognition. The broad scope of the field of psychology will be covered, with emphasis on major theories, multi-cultural and gender differences, and behavior patterns of the individual. Child development, learning theories, abnormal psychology, mental health, personality and mental measurement and their practical applications will be studied. Lecture 3 hours.

PSYC 2102 – Child Psychology (3)

CREDIT: ½ (1 semester)

PREREQUISITES: PSYC 2101

GRADE: 12

This class is offered as a dual credit class through Rend Lake College. A study of the psychological development of the child, with emphasis on practical applications useful to parents, educators and other caregivers. The course covers human development from conception through young adulthood, including multi-cultural and gender-related issues. Lecture 3 hours.

SOCI 1101 – Introduction to Sociology (3)

CREDIT: ½ (1 semester)

PREREQUISITES: Scores on Placement Test and cumulative GPA of 3.0

GRADE: 12

This course is a study of the basic elements of sociological inquiry, including culture, personality, social structure, stratification, community and deviant behavior. It is designed to equip sociology majors with the necessary foundation to continue in sociology and provide non-majors with general understanding of the structure and process of society.

SPAN 1101 – Elementary Spanish I (4)**CREDIT: ½ (1 semester)****PREREQUISITES:** Spanish III**GRADE: 12**

This class is offered as a dual credit class through Rend Lake College. This course is designed to develop understanding, speaking, reading and writing skills, with emphasis on direct presentation and practice in Spanish of the basic grammatical structures and vocabulary of the language. (No transfer credit unless SPAN1102 also is taken.) Lecture 4 hours.

SPAN 1102 – Elementary Spanish II (4)**CREDIT: ½ (1 semester)****PREREQUISITES:** SPAN 1101**GRADE: 12**

This class is offered as a dual credit class through Rend Lake College. A continuation of SPAN 1101, including oral work. Lecture 4 hours.

MUSI 1100 – Music Appreciation (3)**CREDIT: ½ (1 semester)****PREREQUISITES: Scores on Placement Test and cumulative GPA of 3.0****GRADE: 12**

This class is offered as a dual credit class through Rend Lake College. A course for the non-music major designed to develop an understanding and appreciation of music. It covers fundamentals, terminologies, forms and styles, with an emphasis on listening. Lecture 3 hours.

ART 1101 – Art Appreciation (3)**CREDIT: ½ (1 semester)****PREREQUISITES: Scores on Placement Test and cumulative GPA of 3.0****GRADE: 12**

This class is offered as a dual credit class through Rend Lake College. This course leads the student to a discovery and understanding of the visual arts. Through readings, discussions, slides and films, the student will examine the role of the artist and the complex aspects of art as a humanizing element. Lecture 3 hours.

JUNIOR/SENIOR ONLY ELECTIVE COURSES**SCHOOL to WORK****CREDIT: NONE****PREREQUISITES: Senior. Must be on track for graduation.****GRADE: 12**

Students must submit a written application to their counselor to be accepted in the program. Students must demonstrate dependability through attendance and discipline records and must have at least a 3.0 GPA. Students will be selected based on the application and teacher recommendations. School to Work is a program of supervised work experiences through a cooperative arrangement between the school and various workstations within the community. Essentially, students are released for approximately 10 hours weekly to work in an occupational area and receive pay for this experience. The students only attend classes in the morning. The student, employer, and coordinator will develop a written training agreement and personalized training plan. The student is responsible to securing employment. Students do not receive high school credit for working.

PERRY CEO**CREDIT: 2 (2 Semester, 2 Class periods)****GRADE LEVEL: 12****PREREQUISITES: Must submit application and be approved for the program**

CEO is a year-long course designed to utilize partnerships that provide an overview of business development and processes. The 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 business. 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 student development throughout the course.

The class meets for 1½ hours each school day from 7:30-9:00 am in a variety of businesses. The class is facilitated by Paula Myers and completely supported financially by our CEO Business Investors.

INTERRELATED COOPERATIVE EDUCATION

CREDIT: 2 (2 SEMESTER)

PREREQUISITES: IEP must identify need.

GRADE: 12

Students must submit a written application to the Coordinator to be accepted in the program. Students must demonstrate dependability through attendance and discipline records. Students will be selected based on the application and teacher recommendations. ICE is a program of supervised work experiences through a cooperative arrangement between the school and various workstations within the community. Essentially, students are released for approximately 10 hours weekly to work in an occupational area and receive pay for this experience. Students must also enroll in a related cooperative education class. The student, employer, and coordinator will develop a written training agreement and personalized training plan. Work-based educational placements are available in all career and technical education areas.

INTERRELATED COOPERATIVE EDUCATION CLASS

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need.

GRADE: 12

This class is designed for senior students interested in gaining workplace skills through an organized classroom setting and the workplace environment. This course helps students develop skills and attitudes necessary for success in the workplace. Units of study include understanding employer expectations, developing employability skills, using teamwork, effectively using business communications, understanding workplace safety, understanding and calculating payroll and income taxes, demonstrating business etiquette, and exploring career and higher education opportunities.

WORK STUDY

CREDIT: 1 (2 semesters)

PREREQUISITES: IEP must identify need.

GRADE: 12

Work Study combines learning experiences gained through in-school related instruction (study) with regularly scheduled supervised employment (work). In a Work Study placement the student is treated as an employee and has the opportunity to develop work readiness skills in addition to enhancing his/her academic and/or technical competencies. Work Study is connected to a program the student has taken or is currently in. The student uses skills/knowledge gained in the classroom setting and applies them to live work that better the school community – they provide a service to the school that is above and beyond the assignment for class or is part of a teacher's normal responsibilities. The student will be evaluated by their teacher supervisor to earn course credit. Students earn an hourly wage and are responsible for turning in their Work Study hours on a monthly basis to receive their pay.

FRESHMAN COURSE SELECTION GUIDE

<i>DEPARTMENT/Class</i>	<i>Length</i>	<i>DEPARTMENT/Class</i>	<i>Length</i>
CORE COURSES		ELECTIVES	
ENGLISH based on placement		FAMILY and CONSUMER SCIENCE	
Reading 9	Y	Food & Nutrition I	S
English I	Y	Learning for Independence, Family & Employment	S
English II	Y		
MATH based on placement		INDUSTRIAL TECHNOLOGY	
Foundations of Integrated Math	Y	Introduction to Industry	Y
Integrated Math I	Y	Transportation Technology	S
Integrated Math II	Y		
		BUSINESS	
		Business & Technology Concepts	S
SOCIAL STUDIES		Computer Applications I	S
Social Studies I	Y	Computer Applications II	S
SCIENCE based on placement		AGRICULTURE	
Integrated Science I	Y	Intro to Ag	Y
Biology	Y		
		ART	
PHYSICAL EDUCATION		Art I	Y
Physical Education	Y		
		FOREIGN LANGUAGE	
		Spanish I	Y
		MUSIC	
		Beginning Band (No prior band experience)	S
		Music Enrichment & Appreciation	S
		Auxiliary Band (Flags, Try-outs)	S
		Chorus	Y
		Band	Y
		Jazz Band (Per Band Teacher)	Y

SOPHOMORE COURSE SELECTION GUIDE

<i>DEPARTMENT/Class</i>	<i>Length</i>	<i>DEPARTMENT/Class</i>	<i>Length</i>
ENGLISH		FAMILY and CONSUMER SCIENCE	
Reading 10	Y	Learning for Independence, Family & Employment	S
English II	Y	Child Development	S
English III	Y	Parenting	S
		Clothing and Textiles I	S
MATH		Food & Nutrition I	S
Integrated Math I	Y	Food & Nutrition II	S
Integrated Math II	Y		
Integrated Math III	Y		
		INDUSTRIAL TECHNOLOGY	
		Introduction to Industry	Y
SOCIAL STUDIES		Introduction to Construction	S
Social Studies II	Y	Introduction to Manufacturing	S
		Transportation Technology	S
		Auto Tech I	S
SCIENCE		Auto Tech II	S
Integrated Science II	Y		
Biology	Y		
Chemistry I	Y	BUSINESS	
		Business & Technology Concepts	S
		Computer Applications I	S
PHYSICAL EDUCATION		Computer Applications II	S
Physical Education	Y	Graphic Design I	S
		Graphic Design II	S
		Business Law	S
ENGLISH Electives		Marketing	S
Journalism	Y	Accounting I	Y
FOREIGN LANGUAGE		AGRICULTURE	
Spanish I	Y	Intro to Ag	Y
Spanish II (C or better in Spanish I)	Y	Basic Horticultural Science	Y
		Basic Agricultural Science	Y
ART		MUSIC	
Art I	Y	Beginning Band (No prior band experience)	S
Art II	Y	Music Enrichment & Appreciation	S
Drawing	Y	Auxiliary Band (Flags, Try-outs)	S
		Chorus	Y
		Band	Y
		Jazz Band	Y

JUNIOR COURSE SELECTION GUIDE

<i>DEPARTMENT/Class</i>	<i>Length</i>	<i>DEPARTMENT/Class</i>	<i>Length</i>
ENGLISH		AGRICULTURE	
English III	Y	Intro to Ag	Y
Strategic Reading	Y	Basic Horticultural Science	Y
		Basic Agricultural Science	Y
		Ag Business Management	S
MATH		BSAA Plants	S
Integrated Math II	Y	BSAA Animals	S
Integrated Math III	Y		
College Alg/Trig	Y		
Transitional Algebra I	Y	INDUSTRIAL TECHNOLOGY	
		Intro To Construction	S
		Intro To Manufacturing	S
SOCIAL STUDIES		Construction I	Y
Social Studies III	Y	Manufacturing I	Y
		Auto Tech I	S
		Auto Tech II	S
SCIENCE		CAD I	S
Integrated Science III	Y	CAD II	S
Chemistry I	Y		
Chemistry II	Y		
Microbiology (Biology)	S	FOREIGN LANGUAGE	
Genetics (Biology)	S	Spanish I	Y
Physics	Y	Spanish II	Y
Human Anatomy	Y	Spanish III	Y
PHYSICAL EDUCATION			
Physical Education	Y	ART	
		Art I	Y
		Art II	Y
FAMILY and CONSUMER SCIENCE		Drawing	Y
Clothing and Textiles I or II	S		
Living Environments	S		
Parenting	S	MUSIC	
Child Development	S	Beginning Band (No prior band experience)	S
Adult Living	S	Music Enrichment & Appreciation	S
Food & Nutrition I	S	Auxiliary Band (Flags, Try-outs)	S
Food & Nutrition II	S	Chorus	Y
Food Service Occupations (Panther Bakers)	Y	Band	Y
		Jazz Band	Y
BUSINESS			
Accounting I	Y	ENRICHMENT COURSES	
Accounting II	Y	Journalism	Y
Business Law	S	Advanced Physical Education & Training	S
Marketing	S	SAT Prep	S
Graphic Design I	S		
Graphic Design II	S		
Computer Applications II	S	OTHER	
		Perry CEO	Y

SENIOR COURSE SELECTION GUIDE

<i>DEPARTMENT/Class</i>	<i>Length</i>	<i>DEPARTMENT/Class</i>	<i>Length</i>
ENGLISH		AGRICULTURE	
English IV	Y	Intro to Ag	Y
Reading 12	Y	Basic Horticultural Science	Y
RLC English 1101 & 1102	Y	Basic Agricultural Science	Y
		Ag Business Management	S
MATH		BSAA Plants	S
Integrated Math III	Y	BSAA Animals	S
College Algebra/Trig	Y		
Calculus	Y	FAMILY and CONSUMER SCIENCE	
Transitional Algebra I	Y	Clothing and Textiles I OR II	S
Transitional Algebra II	Y	Food Service Occupations	Y
		Parenting	S
SOCIAL STUDIES		Child Development	S
Social Studies IV	Y	Adult Living	S
		Living Environments	S
SCIENCE		Food & Nutrition I OR II	S
Chemistry I	Y		
Chemistry II	Y	INDUSTRIAL TECHNOLOGY	
Human Anatomy	Y	Intro to Manufacturing	S
Microbiology (Biology)	S	Intro to Construction	S
Genetics (Biology)	S	Construction I	Y
Physics	Y	Manufacturing I	Y
		Auto I	S
PHYSICAL EDUCATION		Auto II	S
Physical Education	Y	CAD I	S
		CAD II	S
MUSIC			
Beginning Band (No prior band experience)	S	BUSINESS	
Band	Y	Accounting I	Y
Auxiliary Band (Flags, Try-outs)	S	Accounting II	Y
Chorus	Y	Accounting III	Y
Music Enrichment & Appreciation	S	Business Law	S
		Marketing	S
ART		Graphic Design I	S
Art I	Y	Graphic Design II	S
Art II	Y		
Drawing	Y	OTHER	
		Perry CEO	Y
FOREIGN LANGUAGE		School to Work	Y
Spanish III	Y		
*Spanish IV (8 CR Dual Credit)	Y	RLC Off-Campus Classes (must enroll in all classes)	
		Biology 1100 (Biology for non-majors)	S
ENRICHMENT COURSES		Psych 2101 (Intro to Psych)	S
Journalism	S	Psych 2102 (Child Psych)	S
Advanced Physical Education & Training	S	Soci 1101 (Intro to Sociology)	S
		Musi 1100 (Music Appreciation)	S