

Shelbyville High School

Courses and Requirements

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Notice of Nondiscrimination

Board Policy 7:10

Shelbyville Community Unit School District No. 4 policy ensures equal educational opportunities are offered to students, regardless of race, color, national origin, age, sex, religion or handicap.

High School Graduation Course and Credit Requirements

- Eight semesters of attendance are required for graduation unless granted a waiver due to special circumstance by the Board of Education upon recommendation of the High School principal.
- Credits needed for graduation are assigned as follows: **25 Credits**.
- All students must take seven subjects (classroom) including Physical Education. An eighth subject may be taken *only* if a student elects to take Early Bird Physical Education. *Only courses taken within the seven periods will be counted towards GPA for Honor Roll and Class Rank.*
- Participation in graduation exercises will include students who have completed the course requirements, attendance requirements, and have completed the terminating courses under the auspices of Shelbyville High School.

General Requirements

4 Credits of English
 3 Credits of Math
 2 1/2 Credits of Social Studies (including 1 credit of U.S. History,
 1 credit of World History and 1/2 credit of Civics)
 2 Credits of Science
 1 Credit of Computer Oriented Technology
 1 Credit of Foreign Language, Music, Art, or Vocational Education
 1/2 Credit of Health
 2 Credits of P.E. (unless waived, a student must be enrolled all 4 years)
 1/2 Credit of Consumer Education
 1/2 Credit Career/Work Ethics *or* Freshman Transition/Careers

College Recommendation Requirements

College bound students pursuing admission into a 4-year institution will not receive a college preparatory endorsement unless they meet the following Board of Higher Education requirements:

4 Credits of English
 3 Credits of Math (minimum Algebra I, Geometry, Algebra II)
 3 Credits of Lab Science (not including Health or Health Occupations)
 3 Credits of Social Studies
 2 Credits of Foreign Language, Music, Art, or Vocational Education

Consumer Education Requirement

1/2 Credit of Consumer Education is required by the state of Illinois for graduation. At Shelbyville High School, *any* of the following courses may be taken to meet this Consumer Education requirement:

Adult Living

Personal Finance

Economics

Intro to Business

Intro to Agriculture

Adulting 101

Computer Oriented Technology Requirement

1 Credit of Computer Oriented Technology is required for graduation from Shelbyville High School. The following courses count for credit toward this requirement:

Computer Applications (1/2 cr.)	Prac. Software Apps. (1/2 cr.)	CAD I or II (1 cr.)
Media I or II (1 cr.)	Website Design I (1/2 cr.)	Accounting I or II (1 cr.)
Computer Operations & Program. (1/2 cr.)		Broadcasting I or II (1/2 cr.)
Intro Graphic Design (1/2 cr.)	Comp. App/Desktop (1/2 cr.)	

COURSE REQUIREMENTS BY GRADE LEVEL

FRESHMEN

- **English I** (English I, *or if recommended*, English I Honors)
- **Science** (Physical Science *required for all freshmen*)
- **Math** (Choose from Algebra I or Geometry – *Algebra Concepts may also be recommended*)
- **Freshman Focus/Careers** (1/2 year course)
- **Health** (1/2 year course)
- **P.E.** (Full year. May be waived for Band. Driver's Ed with replace one quarter P.E.)

5 Required Credits + 2 Elective Credits = 7 Credits

SOPHOMORES

- **English II** (Choose from English II or English II Honors)
- **Math** (Next in sequence)
- **Science**
- **World History**
- **P.E.** (Full year. May be waived for Band)

5 Required Credits + 2 Elective Credits = 7 Credits

JUNIORS

- **English III** (Choose from English III or English III Honors)
- **Math** (Next level)
- **U.S. History**
- **Civics** (1/2 year course)
- **P.E.** (May be waived for Band or sports in season – see counselor)

4 ½ Required Credits + 2 ½ Elective Credits = 7 Credits

SENIORS

- **English** (Courses include: Speech, Composition, English IV, & Adv. Literature)
- **P.E.** (May be waived if certain criteria are met – see counselor)

2 Required Credits + 5 Elective Credits = 7 Credits

Additional Course Requirements Include:

- **Consumer Education** (1/2 credit)
- **Computer Oriented Technology** (1 credit)
- **Vocational, Fine Arts, OR Foreign Language** (1 credit)
(*These courses may be taken as electives during any grades 9-12*)

DUAL CREDIT PROGRAM with LAKE LAND COLLEGE

Courses designated to be Dual Credit are open to juniors and seniors and are taught by Shelbyville High School instructors. *Additional fees will also be assessed for Dual Credit courses for textbook rental.

COURSE EQUIVALENCY AND TRANSFERABILITY

Between Lake Land College and other colleges/universities

(T) CATEGORY: Transfer Courses through the Illinois Articulation Initiative. Recognized by Illinois public four-year institutions as meeting lower division general education requirements.

SHS Course	Lake Land Course	Abbrev.	Credit Hrs.
(T) Environmental Biology	Environmental Science	BIO 130	4 cr. hours
(T) Human Development	Human Development/Life Span	PSY 279	3 cr. hours
(T) Pre-Calculus	Algebra with Trigonometry	MAT 140	5 cr. hours
(T) Statistics	Statistics	MAT 125	3 cr. hours
(T) College Algebra	College Algebra	MAT 130	3 cr. hours
(T) Calculus	Analytical Geometry & Calculus I	MAT 241	5 cr. hours

(LL) CATEGORY: Lake Land Courses numbered "100" level or above that can be used for degrees/certificates at Lake Land and that may be transferable to four-year institutions, depending upon the selected major.

SHS Course	Lake Land Course	Abbrev.	Credit Hrs.
(LL) Ag Business Records (Sem. 1)	Farm Business Records	AGR 121	2.5 cr. hrs.
(LL) Farm Management (Sem.2)	Farm Management	AGR 122	2.5 cr. hrs.
(LL) Practical Software Apps.	Practical Software Apps.	CIS 160	3 cr. hours
(LL) Jazz Choir	Community Choir	MUS 104	1 cr. hour

(N) CATEGORY: Lake Land Courses numbered below "100" level are generally not transferable to four-year institutions. These courses can typically be used to meet certificate and degree requirements at Lake Land.

SHS Course	Lake Land Course	Abbrev.	Credit Hrs.
(N) Website Design I	Web Page Design	CIS 099	3 cr. hours
(N) CAD I (Sem. 1)	Intro. to Drafting	TEC 045	2 cr. hours
(N) CAD I (Sem. 2)	CAD I	CAD 056	2 cr. hours
(N) CAD II	CAD II	CAD 057	3 cr. hours
(N) Welding I	Welding Fundamentals	WEL 057	2.5 cr. hours
(N) Health Occupations**	Allied Health	AHE 040	8 cr. hours
(N) Health Occupations**	Health Science Careers	AHE 051	3 cr. hours

*Students taking Lake Land Dual Credit Courses will be assessed a book rental fee of approximately **\$18.42 per credit hour**.

** Students enrolled in Health Occupations will be required to pay a **\$200 course fee**

DUAL CREDIT PROGRAM with EASTERN ILLINOIS UNIVERSITY

Courses designated to be Dual Credit are open to juniors and seniors and are taught by Shelbyville High School instructors *in conjunction with* EIU Professors. **Students must be carrying a cumulative GPA of 3.0 or above at the time of enrollment in order to be eligible for EIU courses.** **Additional fees will also be assessed for EIU Dual Credit courses – see below.*

DUAL CREDIT COURSES **COURSE EQUIVALENCY AND TRANSFERABILITY** *Between Shelbyville High School and Eastern Illinois University*

(T) CATEGORY: Transfer Courses through the Illinois Articulation Initiative. Recognized by Illinois public four-year institutions as meeting lower division general education requirements.

SHS Course	EIU Course	Abbrev.	Credit Hrs.
(T) Speech	Intro. to Speech Communication	CMN 1310G	3 cr. hours
(T) Advanced Literature	Stories Matter	ENG 1009G	3 cr. Hours
(T) Sociology	Introductory Sociology	SOC 1838G	3 cr. Hours

*Students will be charged \$190 per course for EIU Dual Credit Courses. The district will pay the remaining \$200 per course.

ENGLISH

ENGLISH I- 010001A000

1 Credit Grade 9 No prerequisites

Freshman students will focus on critical reading skills, as well as foundational writing skills, while reading a diversified grouping of short stories, poems, nonfiction articles, essays, Romeo and Juliet, and the Odyssey. Other texts may be added at the teacher's discretion. Students will be expected to critically read and analyze all texts, as well as demonstrate analysis through reading workshops, essays, portfolios, projects, discussion, and various other creative, reflective assignments. Students will also be assessed on grammar and vocabulary and receive an introduction to research and citation. Students will also be expected to complete an independent reading assignment each quarter.

ENGLISH I HONORS- 01001A000

**1 Credit Grade 9 Prerequisite: 8th grade English & Reading
grades, & Teacher Recommendation**

Freshman honors students will focus on critical reading skills, as well as advanced writing skills, while reading a diversified group of short stories, poems, nonfiction articles, essays, Romeo and Juliet, the Odyssey, and To Kill a Mockingbird. Other texts may be added at the teacher's discretion. Students will be expected to critically read and analyze all texts at a level that demonstrates a sophisticated understanding of the texts through assignments such as reading workshops, essays, portfolios, projects, discussions, and various other creative, reflective assignments. Students will also be assessed on advanced grammar and vocabulary and practice research and citation. In addition, students will be expected to complete an independent reading assignment each semester. Honors students will be expected to complete assignments at a faster pace than English I, and the quality of work will be held to higher standards than English I. *Summer reading may be assigned.*

ENGLISH II- 01002A000

1 Credit Grade 10 No prerequisites

This course for sophomores is a continuation of the skills learned in English I in the areas of reading, writing, and speaking. In this course, students study works from multiple countries in multiple genres including short stories, drama, poetry, fiction, and nonfiction. The basics of paragraph writing are reviewed, and students write several analytical essays. The works of this course center around the common theme of identity and include *A Separate Peace*, *Anthem*, *Animal Farm*, and *Lord of the Flies* as core works.

ENGLISH II HONORS- 01002A000

**1 Credit Grade 10 Prerequisite: Completion of English IH with a B- or
above or recommendation of
English I instructor**

This accelerated sophomore English course encompasses the areas covered in English II with a special emphasis on vocabulary enrichment and analytical reasoning. Students will continue to develop their writing skills and will write various papers including analysis, fiction, and poetry. In the course, students study works from multiple countries in multiple genres including short stories, drama, poetry, fiction, and nonfiction. The works of this course center around the common theme of identity and include *The Boy in the Striped Pajamas*, *A Separate Peace*, *Anthem*, *Animal Farm*, and *Lord of the Flies* as core works.

ENGLISH (CONT.)**ENGLISH III– 01003A000****1 Credit Grade 11 No prerequisites**

This writing intensive junior English class is thematically designed to cover American literature, American authors, and a brief history of time periods. Students are required to read novels, short stories, plays, poetry, and non-fiction throughout the year and to respond in writing and orally to each genre. An understanding of styles of writing and how the history of America affected the writing is emphasized with each time period. Vocabulary is presented on a weekly basis and with each unit. Students will be expected to write a 6-8 page research paper during the fourth quarter. An independent reading project is assigned for the first semester. Grammar and correct usage are presented throughout the year and are focused on during the third quarter in preparation for the SAT. Students are evaluated through projects, quizzes, writing samples, and oral presentations.

ENGLISH III HONORS– 01003A000**1 Credit Grade 11 Prerequisite: Completion of English IIH with a B– or above or recommendation of English II instructor**

This Junior level English class is an accelerated curriculum that challenges students to explore and cultivate an understanding of various genres of American literature. Students are required to read numerous novels, plays, short stories, nonfiction, and poetry and will learn to analyze, synthesize, and evaluate a range of literary themes and concepts. An average of 3 novels/plays will be read each semester, including but not limited to *The Great Gatsby*, *The Scarlet Letter*, *The Things They Carried*, *Of Mice and Men*, *The Crucible*, and *A Streetcar Named Desire*. An independent reading project will be required for each semester. Vocabulary is presented on a weekly basis and with each unit. Students will be required to write an 8-10 page research paper during the fourth quarter. Grammar and correct usage are presented throughout the year and are focused on during the third quarter in preparation for the SAT. Students are evaluated through projects, quizzes, tests, writing samples, and oral presentations with an emphasis on participation in discussion. *This course is required prior to taking Advanced Literature (weighted senior English course).*

INTRODUCTION TO SPEECH COMMUNICATION– 01151A000**1/2 Credit Grades 11, 12 Prerequisite: Must have a cum GPA of at least 3.0
Dual Credit Course EIU - 3 Credits* Additional EIU fee assessed**

This course focuses on the fundamental principles of selecting, analyzing, evaluating, organizing, developing, and communicating information, evidence, and points of view orally. The course includes instruction in techniques of listening and informative, persuasive, and reactive speaking. **Juniors may take this course as an “elective.” English III or IIIH will still be required.** **The course will be taught by an SHS English instructor in conjunction with an EIU Professor. Students may elect to take this course for high school credit only.*

COMPOSITION I– 01103A000**1/2 Credit Grades 11, 12 Prerequisite: Must have a cum GPA of at least 3.0
Dual Credit Course EIU - 3 Credits* Additional EIU fee assessed**

In this semester long, advanced senior level class, students are expected to practice and learn writing skills that will prepare them for the writing demands of college. Papers include, but are not limited to, reflective writing assignments, college essays, scholarship essays, descriptive essays, analytical writing, persuasive writing, and research papers. This class will also include an extensive review of punctuation, grammar, and usage. **Juniors may take this course as an “elective.” English III or IIIH will still be required.** **The course will be taught by an SHS English instructor in conjunction with an EIU Professor. Students may elect to take this course for high school credit only.*

ENGLISH (CONT.)**ADVANCED LITERATURE/STORIES MATTER-- 01053A000**

**1 Credit Grade 12 Prerequisite: Students must have a B- or above
in English IIIH or Teacher Recommendation
AND a cum GPA of 3.0**
Weighted Course

Dual Credit Course EIU - 3 Credits* Additional EIU fee assessed

This senior advanced literature course is designed to be the equivalent of a college level English course. Students will write a variety of papers of different genres including analytical, critical, and fiction. The majority of this course will be discussion based, and students should be able to show a mastery of analytical skills. The first semester of the course will focus on literary theory and psychoanalysis through the use of works including *Beowulf*, *Grendel*, *Macbeth*, and *Hamlet* among others. The second semester of the course will be dual-credit through Eastern Illinois University. The dual-credit portion is titled "Because I Could Not Stop for Death" and will focus on the question of what it means to be human and to confront our mortality through literature. **The course will be taught by an SHS English instructor in conjunction with an EIU Professor. Students may elect to take this course for high school credit only.*

ENGLISH IV-- "Heroes and War" - 01004A000

1/2 or 1 Credit Grade 12 No prerequisites

This senior level course is literature based around the specific theme of war and the hero. The first semester will focus on the hero, and the major works include *Beowulf*, *Grendel*, *King Arthur* and *Macbeth*. The second semester shifts to more contemporary literature and will consist of short stories, poetry, film, and novels about modern wars. Some of the major authors will include Tim O'Brien and Kurt Vonnegut. Students will write analytical papers as well as creative fiction. *This course may be taken one or both semesters.*

ENGLISH IV-- "Fear and Identity" - 01004A000

1/2 or 1 Credit Grade 12 No prerequisites

This class will examine the role that fear plays in identity. It will ask students to explore their own identity, while also examining how fear plays a role in identity for others and society. First semester will establish the themes of the course through literature. The texts that may be read include, but are not limited to, *Frankenstein*, *1984*, *Macbeth*, and *Catcher in the Rye*. Second semester will focus on digital literacy and the role that fear plays in identity in our digital age. Therefore, students will also be completing analysis of the role that film, YouTube, Twitter, Instagram, and many other forms of media have in forming identity. Second semester will also include a research project that deals with social media and its role in identity. Students will be evaluated through projects, quizzes, tests, papers, presentations, and participation. *This course may be taken one or both semesters.*

ENGLISH IV-- "British Literature/Science Fiction" - 01004A000

1/2 or 1 Credit Grade 12 No prerequisites

This survey course will explore the genre of science fiction and its connection to popular culture and concerns of society today. It will survey the history of the genre and its representative themes and methods of storytelling through novels, short stories, films, and other media. Students will read one to two novels per semester including but not limited to *The Hitchhiker's Guide to the Galaxy* and *Brave New World*. Students will also be expected to watch and analyze the themes of famous science fiction films such as *I, Robot* and *Gattaca*. In this class students will be expected to read at home and come prepared for class discussion. Students will write various essays, including their own creative piece of flash fiction.

SPANISH

SPANISH COURSES ARE TO BE TAKEN SEQUENTIALLY BASED UPON PREREQUISITES

SPANISH I– 06102A000

1 Credit Grade 9, 10, 11, 12 Prerequisite: “B” or higher each quarter in 8th grade English or “B” in preceding high school English course or Instructor Consent

The emphasis is on oral and aural Spanish vocabulary in the present tense. Basic culture, reading and writing are introduced.

SPANISH II– 06102A000

1 Credit Grades 10, 11, 12 Prerequisite: “B-” in Spanish I* or consent of Spanish instructor

The emphasis remains on oral Spanish with the additional verb tenses. The vocabulary is basically daily activities and cultural. Reading and writing are expanded.

**While a “B” average is recommended due to rigor of this course, students with a “C” may be considered case-by-case.*

SPANISH III– 06102A000

1 Credit Grades 11, 12 Prerequisite: “B” in Spanish II or consent of Spanish instructor

The emphasis remains on oral Spanish with the introduction to the subjunctive mood. Finite grammar and vocabulary are used. Reading and writing are expanded. History, art, and literature are added. Listening skills are emphasized.

SPANISH IV– 06102A000

1 Credit Grade 12 Prerequisite: “B” in Spanish III or consent of Spanish instructor
Weighted Course

Finite grammar rules are covered, while building on reading, writing and oral Spanish. Vocabulary is reviewed. History, art, and literature are expanded. Aural comprehension skills are emphasized.

MATHEMATICS

ALGEBRA CONCEPTS– 02055A000

1 Credit Grades 9, 10, 11 Prerequisite: Recommended for identified students

Topics covered are order of operations, evaluation of equations and inequalities, solving multiple step equations, graphing and writing linear equations, solving systems of linear equations, exponents, graphing and solving quadratic equations, simplifying radicals, basic geometry, and function notation and evaluation.

ALGEBRA I– 02052A000

1 Credit Grades 9, 10 No Prerequisites

Counts as four-year college core course

Topics covered are order of operations, evaluation of equations and inequalities, solving multiple step equations, graphing and writing linear equations, solving quadratic equations, simplifying radicals, basic geometry, and function notation and evaluation.

MATHEMATICS (CONT.)

GEOMETRY– 02072A000

1 Credit **Grades 9, 10, 11, 12** **Prerequisite: Successful completion of Algebra I**
Counts as four-year college core course

Students maintain algebraic skills and learn about properties of geometry, lines and planes in space, perpendicularity, important angle pairs, congruent angles, congruent triangles, polygons, similar polygons, Pythagorean Theorem, trigonometry, circles, area, volume, coordinate geometry, and transformations.

GEOMETRY CONCEPTS– 02072A000

1 Credit **Grades 10, 11, 12** **Prerequisite: Algebra Concepts or consent of math instructor**

Topics covered are basic properties of geometry, properties of triangles, properties of parallel lines, ways to prove triangles are congruent, properties of quadrilaterals, properties of similar figures, basic trigonometry, and properties of circles, area, volume, coordinate geometry, and transformations.

ALGEBRA II CONCEPTS– 02069A000

1 Credit **Grades 11, 12** **Prerequisite: Successful completion of Geometry, Geometry Concepts, or instructor consent**
Basic scientific calculator required

Topics covered are solving equations and systems of equations and inequalities, quadratic functions, polynomial functions, exponential and logarithmic functions, trigonometric functions, and probability and statistics.

ALGEBRA II- 02056A000

1 Credit **Grades 10, 11, 12** **Prerequisite: Successful completion of Geometry**
Counts as four-year college core course **or consent of math instructor***

Topics covered are solving equations and systems of equations and inequalities, quadratic functions, polynomial functions, conic sections, rational equations and functions, exponential and logarithmic functions, trigonometric functions, and probability and statistics. **Recommended: T.I. 84 Graphing Calculator.*

PRECALCULUS– 02110A000

1 Credit **Grades 11, 12** **Prerequisite: Successful completion of Algebra II**
Counts as 4-yr college core course **Required: TI-84 Plus Graphing Calculator**
Dual Credit Course **5 Lake Land Credits** **Additional Fee**

Topics covered will include graphing functions including transformations, solving equations and inequalities, graphing and solving polynomial and rational functions, graphing, solving, and using properties of exponential and log functions, basic trigonometry, graphs of trig functions, analytical trig, and sequences and series. *Students will be required to test in to this course in order to gain college credits.*

STATISTICS – 02201A000

½ Credit **Grades 11, 12** **Prerequisite: Successful completion of Algebra II**
Counts as 4-yr college course **Required: TI-84 Plus Graphing Calculator**
Dual Credit Course **3 Lake Land Credits** **Additional Fee**

Topics covered in **Statistics** will include applications of elementary principles of descriptive statistics involving frequency distribution, graphical presentation, measure of location and variation. Elements of probability, sampling techniques, binomial and normal distribution and other topics will also be explored. *Students will be required to test in to this course in order to gain college credits.*

MATHEMATICS (CONT.)

COLLEGE ALGEBRA – 02057A000

½ Credit Grades 11, 12 Prerequisite: Successful completion of Algebra II
 Counts as 4-yr college course Required: TI-84 Plus Graphing Calculator
 Dual Credit Course 3 Lake Land Credits Additional Fee

The topics covered in this course include the review of the real number system, radicals, equations, and exponents. Also covered: relations and functions, logarithms, complex numbers, polynomials, and theory of equations. *Students will be required to test in to this course in order to gain college credits.*

CALCULUS – 02121A000

1 Credit Grade 12 Prerequisite: Successful completion of Precalculus
 Counts as 4-yr college course Required: TI-84 Plus Graphing Calculator
 Weighted Course
 Dual Credit Course 5 Lake Land Credits Additional Fee

Topics covered in **Calculus** will include elementary functions of one variable, such as polynomial, rational, radical, trigonometric, inverse trigonometric, exponential and logarithmic functions. Applications include rates of change, optimization, curve sketching, and area. *Students who have successfully completed Precalculus will not have to “retest” to take Calculus.*

MATH SEQUENCES

(Minimum 3 credits required – must include 1 credit of Algebra I or equivalent, and 1 credit of Geometry content)

STUDENTS MUST TAKE COURSES SEQUENTIALLY. HOWEVER, THEY MAY BE ABLE TO MOVE TO A DIFFERENT SEQUENCE WITH INSTRUCTOR’S CONSENT

Sequence 1

Algebra Concepts
 Geometry Concepts
 Algebra II Concepts

Sequence 2

Algebra I
 Geometry
 Algebra II

Sequence 3

Algebra I
 Geometry
 Algebra II
 Statistics (D) or College Algebra (D)
 or Both

Sequence 4

Algebra I
 Geometry*
 Algebra II*
 PreCalculus (D)
 Statistics (D) or College Algebra (D) or
 Calculus (D,W) (if double-up on Geometry
 and Algebra II soph. year)

Sequence 5

Geometry
 Algebra II
 Precalculus (D)
 Calculus (D, W)

Sequence 6

Geometry
 Algebra II
 Precalculus (D)
 Statistics (D) or College Algebra (D)
 or Both

**Strong math students, with teacher’s permission, may “double up” Geometry and Algebra II sophomore year in order to be positioned to take Precalculus and Calculus*

(D) = Dual Credit Course
 (W) = Weighted Course

SCIENCE

STUDENTS SHOULD NOTE PREREQUISITES FOR ALL SCIENCE COURSES AND SHOULD NOT ENROLL IN THOSE FOR WHICH THEY ARE NOT QUALIFIED

PHYSICAL SCIENCE– 03159A000

1 Credit

Grade 9, 10, 11, 12

Required course for all 9th graders

Counts as four-year college lab science

This course will be a required class that emphasizes the development of basic scientific skills, scientific vocabulary and reading comprehension. It presents the students with foundational concepts in Biology, Chemistry, Physics, Earth Science and Environmental Sciences. The goal of this class is to prepare students for life in a world where all fields of science play important roles in our daily lives and/or more detailed study in any of these subjects.

BIOLOGY– 03051A000

1 Credit

Grades 9, 10, 11, 12

Counts as four-year college lab science

Biology is a full year course which covers basic themes in biology, biological processes and laboratory techniques. It includes biochemistry, cell structure and function, cell processes, mitosis and meiosis. It also examines genetics, from its beginnings in Mendel's experiments to current research in and ethical applications of molecular genetics.

ZOOLOGY– 03052A000

1 Credit

Grades 10, 11, 12

Prerequisite: Successful completion of Biology

Counts as four-year college lab science

Zoology is a study of the Animal Kingdom. It includes an introduction to taxonomy and the use of taxonomic keys and a study of earth history and adaptation of organisms over time. It covers the characteristics and examples of the major phyla of invertebrates and vertebrates. Preserved and dissected specimens are used as a comparison study of each phylum of animals. *This course is offered every other year.*

MICROBIOLOGY– 03060A000

1/2 Credit

Grades 10, 11, 12

Prerequisite: Successful completion of Biology

Counts as four-year college lab science

This course is a one semester course which introduces students to the world of microorganisms, including viruses, bacteria, protists, fungi and algae. This course covers characteristics, natural history, life cycles, classification, identification and impact on humans of each group of microorganisms. In addition the course will introduce the various techniques for studying microorganisms, including microscope use and growth of bacterial, protist, fungal and algal cultures in the laboratory. *This course is offered every other year.*

BIOETHICS– 03063A000

1/2 credit

Grades 10, 11, 12

Prerequisite: Successful completion of Biology

Counts as 4-yr college lab science

Students will study and become familiar with the latest medical science, genetic and research discoveries. Students will explore some challenging ethical issues that face our society. Students, through bioethical analysis, will become better decision makers. Students will also be exposed to new biotechnologies and become aware of the effects on society. *This course is offered every other year.*

SCIENCE (CONT.)**CHEMISTRY– 03101A000****1 Credit Grades 10, 11, 12****Prerequisite: “C” or better in Algebra I both semesters
Counts as four-year college lab science**

A one-year laboratory course designed for college-bound sophomores to introduce students to the building blocks of matter and how they interact. Students will be challenged to become problem solvers and critical thinkers. Laboratory work is emphasized as it provides hands-on verification of scientific principles and laws. Topics included are atomic theory, the periodic law, chemical bonding, chemical formulas and equations, stoichiometry, gas laws, solutions, acid/base chemistry and PH. A calculator is required.

ADVANCED CHEMISTRY– 03102A000**1 Credits Grades 11, 12****Prerequisite: “B-” or better in Chemistry both semesters*****Weighted Course*****Counts as four-year college lab science**

A one-year laboratory course designed for college-bound juniors and seniors desiring a more in-depth study matter presented on the college freshman level. Laboratory investigations, often involving the identification of an unknown, are performed weekly. Topics included are colligative properties, acid/base chemistry, thermochemistry, reaction rates and spontaneity, chemical equilibrium, electrochemistry, organic chemistry, and nuclear chemistry. A calculator is required.

PHYSICS– 03151A000**1 Credit Grades 11, 12****Prerequisite: Recommended “B” or better in two years of high school math (1 yr. must be Alg. I)*****Weighted Course*****Counts as four-year college lab science**

The content of the course is geared to produce a genuine understanding of the physical laws fundamental to all sciences. The sequence of topics cover the basic laws of force, motion, gravitation, energy, waves, light electricity and magnetism. The course presents highly effective problem solving techniques. The concepts of physics are developed with the help of measurement, algebra, trigonometry, and graphing. Laboratory experiments are performed to reinforce physics concepts. A calculator is required.

ENVIRONMENTAL BIOLOGY– 03003A000**1 Credit Grades 11, 12****Prerequisite: Chemistry or consent of instructor.
Recommend "B" average in English****Counts as 4-yr college lab science****Dual Credit Course****4 Lake Land credit hours****Additional Fee*****Weighted Course***

Environmental Biology is an advanced, college-prep course. It is a study of man's impact on his environment, including ecosystems, populations, natural resources, and pollution, and it has an emphasis on group discussions and class participation, rather than on labs.

ANATOMY AND PHYSIOLOGY– 03053A000**1 Credit Grades 11, 12****Prerequisite: “B” average in Biology
or consent of the instructor****Counts as 4-yr college lab science**

Anatomy and Physiology is a one-year course that involves an in-depth study of the ten systems of the human body. The culminating activity for the course is a field trip to the cadaver lab at Lake Land College where students will have the opportunity to work with a cadaver under the guidance of an LLC professor. The course is especially designed for students planning on a life science or physical education course of study in college (medical, pharmaceutical, pre-veterinary, physical education, health, etc.).

SOCIAL STUDIES

CIVICS– 04161A000

1/2 Credit Grade 9 or 11*

**No Prerequisites
Required for Graduation**

Civics a required course in which the student will receive a basic introduction to government. It is a semester course that covers the requirement for the Constitution of the United States and Illinois in detail. Local governments and their functions will be studied in the semester and we will also cover such governing bodies such as Boards of Education, City Council, Library Boards, and others.

**Civics will not be taught for two calendar years beginning with the class of 2021 due to a change in course sequencing. The class of 2021 will take Civics in 11th grade. The classes of 2018-2020 will have taken Civics during 9th grade.*

GEOGRAPHY– 04001A000

1/2 Credit Grades 9, 10, 11, 12

**No Prerequisites
Social Studies Elective**

Geography is a subject that is intrinsically linked to an appreciation of cultural diversity and an understanding of how culture influences people's daily lives, attitudes, behaviors and interaction with their environment. Our society is increasingly influenced by the multicultural nature of our population. The cultural diversity makes our nation a great world power and therefore, with the changing world today, we must understand the other cultures of the world.

PSYCHOLOGY– 04254A000

1/2 Credit Grades 11, 12

**No Prerequisites
Social Studies Elective**

This course introduces students to the study of behavior and the mind. Topics discussed include research methods, the biology of behavior, sensation and perception, stress and adjustment, learning, memory, cognition, motivation, emotion, life-span development, personality, abnormal behavior and its therapies, social behavior and individual differences. Psychology's insights will allow students to apply the many relevant lessons from the course within their personal and professional lives.

WORLD HISTORY– 04051A000

1 Credit Grade 10

**No Prerequisites
Required for Graduation**

World History is the study of ancient civilizations. This course emphasizes topics such as geography, religion, cultural achievements, political systems, economics, and social structures. The course will inspire the learner with an appreciation of history and a tolerance toward differing world cultures. Students will utilize different methods that historians use to interpret the past, including points of view and historical context.

SOCIOLOGY-COLLEGE LEVEL– 04258A000

1/2 Credit Grade 12

**Prerequisite: Must have a cum GPA of at least 3.0
Social Studies Elective**

Dual Credit Course

EIU – 3 credit hours* Additional Fee

This course examines the scientific description of the regularities and patterns of behavior that characterize our society and the larger global environment. Sociological analyses of the social forces that affect our daily lives is also studied. **The course will be taught by an SHS English instructor in conjunction with an EIU Professor.*

SOCIOLOGY – 04259A000

1/2 Credit Grade 12

No Prerequisites

Social Studies Elective

Sociology is a study of human behavior in both past cultures and present. We look at what is acceptable behavior in various societies. We tend to study the present cultures more than ancient societies. This is a one semester course.

SOCIAL STUDIES (CONT.)

U.S. HISTORY– 04101A000

1 Credit

Grade 11

**No Prerequisites
Required for Graduation**

This course covers United States history from the mid-1800's to the mid-1900's. Topics covered are the Civil War, Minority Experience, Industrialization & Immigration, Progressive Era, World Wars, Roaring Twenties, and the Great Depression.

U.S. HISTORY 1945-PRESENT– 04106A000

1/2 Credit

Grade 12

**Prerequisite: B– or better in U.S. History OR
consent of instructor**

Weighted Course

Social Studies Elective

This elective, senior level course will cover United States history from the end of World War 2 to the 1990's. Topics to be covered will include the Cold War, Civil Rights, and Vietnam among others. This course is reading and writing intensive.

ECONOMICS– 04201A000

1/2 credit

Grades 11, 12

**No Prerequisites
Social Studies Elective**

Consumer Education Credit

This course uses Dave Ramsey's Foundations in Personal Finance curriculum. Topics discussed include saving, budgeting, debt, buying a car, buying a house, credit, paying for college, investing, and insurance.

FINE ARTS

CHOIR B– Jazz Choir– 05111A000

1 credit

Grades 9, 10, 11, 12

Selected through audition process

Dual Credit Course (grade 11 or 12 only)

1 Lake Land Credit

Additional Fee

Jazz Choir provides instruction in four– to eight-part singing. Through the use of a variety of music, teaching stresses tone production, ear training, reading musical notation, and appreciation of music. Through required group performances, including musical cast or crew, the students learn stage presence and the spirit of cooperation essential to this performing art. Students must audition to be in this choir and might possibly select a special uniform. Overall choir enrollment, vocal ability, musical skill ability, performance ability and desire to be in this group will determine placement. This choir consists of a well-balanced and accelerated group. *This is a full-year course, unless consent of director otherwise.*

CHOIR C– Concert Choir– 05111A000

1 credit

Grades 9, 10, 11, 12

No audition required

Concert Choir provides instruction in introductory to intermediate singing techniques. Students will engage in multiple courses of music study in individual, small group, and large ensemble singing, as well as other areas of music making. The development of proper singing mechanics, tone production, ear training, reading musical notation, and appreciation of music will be stressed. Overall enrollment, vocal ability, musical skill ability, performance ability and desire to be in this group will determine placement.

FINE ARTS (CONT.)

HIGH SCHOOL BAND– 05101A000

1 credit

Grades 9, 10, 11, 12

Prerequisite: Completion of MS Band or director approval

This is a music performance class where students will learn music through the wind band medium. Content will cover basic tonal concepts, various musical genres and time periods as well as many famous composers and musicians. The course is co-curricular; meaning that students involved will be required to attend home football/boys basketball games, concerts, and parades, as well as some after school rehearsals and performances with the band. *This is a full year course. Students who participate in Band may be eligible to waive P.E. during grades 9-12.*

ART I– Introduction to Visual Arts - 05154A000

1 credit

Grade 9, 10, 11, 12

No prerequisites

This is an Introduction level course that places emphasis on using a variety of tools and processes to produce 2-dimensional and some 3-dimensional work. The purpose is to familiarize students with the basic Elements and Principles of Art and Design, and how different materials and processes can combine to convey meaning. Students will work toward proficiency in these areas by developing focused ideas, planning, and problem solving. Students will learn basic terminology and be introduced to areas of Art History. Materials and processes might include, pencil, charcoal, ink, ceramic clay, metal foil, printmaking, perspective, watercolors, figure drawing, and more.

ART II– Media and Methods - 05154A000

1 credit

Grade 10, 11, 12

Prerequisite: “C” in Art I or approval of Art Instructor

Students will continue working in a variety of 2-dimensional and 3-dimensional materials focused on the Elements and Principles of Art. Art II students are required to maintain a sketchbook that will consist of students’ personal interests and some assigned material that will be graded regularly. Students will work beyond basic proficiency to communicate ideas regularly at a high level of effectiveness. Students will participate in discussions about student work and historical works of Art. Students will use materials similar to Art I but will also include Acrylic paint, ceramic glazes, mixed media, and other more advanced processes.

ART III– Independent Exploration - 05154A000

1 credit

Grade 11, 12

Prerequisite: “B” in Art II or approval of Art Instructor

Students will continue working in a variety of 2-dimensional and 3-dimensional materials focused on the Elements and Principles of Art. Art III students are also required to maintain a sketchbook that will consist of students’ personal interests and some assigned material that will be graded regularly. Students will communicate ideas regularly at a high level of effectiveness and will work towards mastery in one or more areas of interest. Students will participate in discussions of student work and historical works of Art. Art III students will initiate, define, and solve visual arts problems independently using intellectual skills such as creativity, analysis, and evaluation. All varieties of materials are available to Art III students including acrylic paint, canvas board, ceramics, glass slumping, plaster casting, etc.

ART IV- PORTFOLIO – 05170A000

1 credit

Grade 12

Prerequisite: Must gain approval of Art Instructor

This senior level course is intended for students who are considering a career in Art and Design. The purpose of this course would be to create a portfolio to address each student’s strengths and weaknesses. Students would work individually with the instructor to agree upon portfolio criteria and content. Emphasis is on preparing original college level work, documentation, and evaluation.

INDUSTRIAL TECHNOLOGY

TECH 1A- 11002A001

1/2 - 1 credit Grades 9, 10, 11, 12

No prerequisites

Transportation (Engines) - I140

Transportation is designed to foster an awareness and understanding of the various transportation customs that make up our mobile society. Using a variety of learning activities, students are exposed to many career opportunities in the transportation field. Through laboratory activities the student will be exposed to the technologies of and processes involved in material handling and computer uses in transportation technology. The student will also study the functions of the automobile engine, followed by the complete overhaul procedure of the large engine, through the use of manuals and lab work.

Communications—I160

Communication is a course designed to foster an awareness and understanding of the technologies used to communicate in our modern society. Using a variety of learning activities, students are exposed to many career opportunities in the communication field. Students will gain experience in the areas of design and drafting, radio and television broadcasting, computers in communication, and telecommunication. The student will also learn the procedure for finding a good career and landing a good job in any field with the help of writing resumes, cover letter, follow-up letters, speeches and interviews.

TECH 1B- 13052A001

1 credit Grades 9, 10, 11, 12

No prerequisites

Production (Woodworking) - I120

Production is designed to foster an awareness and understanding of manufacturing and construction technology. Using a variety of learning activities, students are exposed to many career opportunities in the production field. Experiences in manufacturing include product design, procedures, corporate structure, management, research and development, production planning, mass production, marketing and servicing. Students will use laboratory experiences to become familiar with current construction technologies, as well as the latest equipment needed to keep up with the demands of today's world.

Energy Utilization—I180

Energy Utilization is a course designed to foster an awareness and understanding of how we use energy in our industrial technological society. Using a variety of learning activities, students are exposed to many career opportunities in the field. Areas of study will include conversion of energy; electrical fundamentals; solar energy resources; alternate energy resources such as wind, water, and geothermal; fossil fuels; nuclear power; energy conservation; and computer uses in energy technology. Students will use laboratory experiences to become familiar with current energy technologies.

DRAFTING/CAD I- 21102A001

1 credit Grades 11, 12

No prerequisites

Dual Credit Course

4 Lake Land credit hours

Additional fee

This course is designed to provide students interested in a career in drafting with information and practical experience needed for the development of job-related competencies. The course content includes planning and organizing activities, researching information, and coordinating work. In addition, students will perform other activities such as preparing various sketches, performing basic layouts, detailed drawings such as sectional and isometric views, using various reproduction techniques and using CAD command processes to produce computer aided drawings. Basic CAD commands and mechanical drafting will be the focus of the first semester, with Architecture and 3D Architecture being the focus of semester two.

CAD II- 21103A001

1 credit Grades 11, 12

Prerequisite: Successful completion of CAD I

Dual Credit Course

3 Lake Land credit hours

Additional fee

This course continues the learning of the basic fundamentals, principles, and practices involved in producing and reading of industrial blueprints from the beginning to the advanced levels as started in Drafting/CAD I. It emphasizes the developing of presentation techniques with the help of AutoCAD, Revit, and Inventor. Further studies of building designs and codes will be implemented to increase the student's knowledge in the construction of working drawings and the reading of architectural blueprints. In addition, students will develop a complete set of house plans with a material list and a house model as well as multiple functional 3D models that will be created by a 3D printer.

INDUSTRIAL TECHNOLOGY (CONT.)

CONSTRUCTION/HOME REPAIR– 17002A001

1 credit Grades 11, 12 Prerequisite: Tech IB with “C” or better in Production Class; Consent of Instructor

This course provides experiences in the construction and maintenance of residential buildings and related fixtures. Planned learning activities will allow students to become knowledgeable of fundamental principles and methods and to develop technical skills related to carpentry, building maintenance, and finish work. Instruction includes safety principles, recognition of standard lumber sizes, electrical and plumbing installation, drywall finishing, trim creation and finishing, as well as cost estimating and blueprint reading. During second semester, students will design and create their very own high-quality woodworking project. Students will also learn how to operate and maintain the CNC Router. Students will be accepted based on meeting prerequisites and having exhibited good attendance, a good work ethic, and a good attitude in the work environment.

CONSTRUCTION SKILLS II– 17002A001

1 credit Grade 12 Prerequisite: Grade of “B” or better in Construction/Home Repair

This course provides experiences in the construction and maintenance of residential buildings and related fixtures. Planned learning activities emphasize the development of more advanced knowledge and skills than those provided in Construction/Home Repair I. Student technical skill experiences include instruction and activities in safety principles, recognition of standard lumber sizes, electrical and plumbing installation, drywall finishing, trim creation and finishing, as well as cost estimating and blueprint reading. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge, as well as foreman capabilities. During second semester, students will design and create their very own high-quality woodworking project. Students will also be able to operate and maintain the CNC Router. Students will be accepted based on meeting prerequisites and having exhibited good attendance, a good work ethic, and a good attitude in the work environment.

INTRODUCTION TO WELDING– 13207A001

1/2 credit Grades 9, 10, 11, 12 No prerequisites Additional Fee

It is the intent of this semester long course to introduce students to the basic concepts of welding equipment, consumables, welding production, and basic manipulation. In addition, extensive shop safety and maintenance will be covered. Subjects covered in introduction to welding will lead to more complex welding procedures in Welding I and Welding II. *Additional fees will be based upon projects.*

WELDING I– 13207A001

1/2 credit Grades 11, 12 No prerequisites Additional Fee
Dual Credit Course 2.5 Lake Land credit hours

It is the intent of this semester long course to provide classroom and shop experiences to serve as a foundation for acquiring the technical knowledge and developing the manipulative skills required of the welding industry today. The course content includes safety procedures, metal properties and testing, weld symbols, and blueprint reading. The student will also develop skills using various types of welding equipment such as Oxyacetylene Welding, Shielded Metal-Arc Welding, Gas Shielded-Arc Welding, and Special Welding processes.

WELDING II– 13207A001

1/2 credit Grades 9, 10, 11, 12 Prerequisite: Grade of “B” or above in Welding I or consent of instructor

The intent of this semester long course is to provide continued instruction in advanced welding applications. This course is project based with students acquiring their own materials at their own expense. In addition, students will essentially create their own blueprints using mechanical drafting techniques or CAD if available. Students will perform off-set welds utilizing Shielded Metal Arc Welding and Gas Shielded Metal Arc Welding. Students will also be introduced to TIG and Plasma Cutting techniques. *Additional fees incurred will be based upon the project chosen by the student.*

INDUSTRIAL TECHNOLOGY (CONT.)

ADVANCED WELDING TECHNIQUES– 13207A001

1/2 credit Grades 10, 11, 12 Prerequisite: Successful completion of lower level Welding course *and* consent of instructor

Students in this course will learn precision techniques in Tig Welding, measurement, and cutting/fabrication. The class will be taught using real project based education emphasizing skills in waste management, weld tolerances, physics of welding, geometry, and advanced metallurgy. In addition, this course will offer some technical math, reading, and writing for industry.

MANUFACTURING - 13052A001

1 credit Grades 10, 11, 12 No prerequisites

This course will be offered to sophomores through seniors. It will emphasize manufacturing processes, potential careers, and project based learning. The course will run parallel with Entrepreneurship and will allow students to fabricate the products that match the entrepreneurial concepts. These proposals will be first generated through industrial prints (Auto-Cad), prototyping (3D Technology, Metal and Wood fabrication), and then evaluated for production merit.

BUSINESS & TECHNOLOGY

BUSINESS CONCEPTS 1A: INTRODUCTION TO BUSINESS– 12001A001

**1/2 credit Grades 9, 10, 11, 12 No prerequisites
Consumer Education Credit**

This course is designed to provide students with an orientation to business principles such as marketing, business in the global economy, organization and management skills, financial and risk management, banking and financial services, business communication, types of business organizations, and organization and use of financial data, and business computations. This course meets the requirements for a consumer education credit as set forth in CH I, S. 1.40, Section N of the Illinois Administrative Code.

BUSINESS CONCEPTS 1B: PERSONAL FINANCE– 22210A000

**1/2 credit Grades 10, 11, 12 No prerequisites
Consumer Education Credit**

In this course areas of study include concentration on components of personal finances including career exploration, salary and wage computations, taxes, and insurance. The course will also focus on important life skills such as maintaining cash and checkbook records, saving and investing, debt and credit, and budgeting. During the course of the semester, students will develop a personal financial portfolio that includes income and spending levels based on their career of choice, as well as a personal budget and a savings and investing plan. This course meets the requirements for a consumer education credit as set forth in CH I, S. 1.40, Section N of the Illinois Administrative Code.

COMPUTER APPLICATIONS* – 10004A001

1/2 credit Grades 9, 10, 11, 12 No prerequisites

This is an orientation level course that help to develop an understanding of various software including Microsoft Word, Power Point, Publisher, email, Google docs, and Movie Maker. The students will design publications, movies, and basic business documents. **This course was formerly Computer Apps/Desktop for 1/2 credit.*

BUSINESS & TECHNOLOGY (CONT.)

INTRODUCTION TO GRAPHIC DESIGN – 10202A000

1/2 credit Grades 9, 10, 11, 12 No prerequisites

This course will present the student with an introduction to the fundamentals of graphic design. It will introduce and allow students to learn the basics of Adobe InDesign, and Adobe Photoshop by editing images, creating digital illustrations and logos, newsletters, brochures, and other projects associated with print and online communications. The goal of this course is to provide students foundational skills in graphic design, as well as to give students exposure to design thinking and the design process as a way of introducing them to visual communication.

COMPUTER OPERATIONS AND PROGRAMMING – 10152A001

1/2 credit Grades 10, 11, 12 Prerequisite: Basic computer competencies recommended

In this course students will learn a variety of programming languages and tools that will prepare them for object orientation coding. The Raspberry Pi device will be used to assist students in exploration of computing and programming languages such as Scratch and Python. Canakits will also allow students to build a variety of mini computers and robots and perform many other computer programming operations. This course implements hands-on activities and higher order thinking. It also requires students to work as teams in small groups/workstations.

DIGITAL GRAPHICS – 10202A001

1/2 credit Grades 10, 11, 12 Prerequisite: Basic digital graphics skills recommended

In this more advanced design course students will explore sound, graphics, animation, and video as they emerge in CD Rom and web-based technologies. Students will build a multimedia portfolio while learning design tools using Blender software. Through the use of computers, students will also be introduced to the dynamic field of 3D graphics design, such as creating 3D objects, creating logos, developing web apps, and creating animated cartoons. On overall goal of the course is for students to use computers to produce illustrations and manipulate images to achieve a desired look and purpose.

PRACTICAL SOFTWARE APPLICATIONS– 10005A001

1/2 credit Grades 11, 12 No prerequisites Additional fee
Dual Credit Course 3 Lake Land credits

This course provides an opportunity for the student to work with various types of computer software. These learning activities include MS Windows, word processing, spreadsheet design, database management, internet, and presentation software. Microsoft Office and Google products will be used.

WEBSITE DESIGN I– 10201A001

1/2 credit Grades 11, 12 No prerequisites Additional fee
Dual Credit Course 3 Lake Land credits

Website Design is an introductory course which focuses on creating and maintaining web pages using XHTML and CSS code. This course is designed to present the students with those skills which are necessary to navigate the internet. Students will also learn about networks, hosts, clients and on-line resources. This course will provide a hands-on experience that is beneficial to those entering the business or computer field. Students will make and create websites for themselves. In addition they may also create business related websites and maintain the school website.

BUSINESS & TECHNOLOGY (CONT.)

ENTREPRENEURSHIP– 12053A001

1 credit **Grades 11, 12**

No prerequisites, preference given to students who have taken or are currently enrolled in Acctg I

Dual Credit Course

3 Lake Land credits Additional Fee

Explore business ownership by creating, managing and operating a small business in partnership with other classes, including welding and accounting. This course covers entrepreneurship opportunities and challenges facing small business owners and managers including how to develop a feasible business concept, develop a comprehensive business plan, obtain start-up capital, execute the strategy, and measure financial performance

ACCOUNTING I– 12104A001

1 credit **Grades 10, 11, 12**

No prerequisites

Accounting I is a skill level course that is of value to all students pursuing a background in business, marketing, or management. Accounting I offers students the basic fundamentals necessary for maintaining a set of financial records. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Real-world applications as well as practice sets with business papers may be used to emphasize actual business records management. Computerized accounting applications will be integrated throughout the course.

ACCOUNTING II– 12104A002

1 credit **Grades 11, 12**

Prerequisite: Accounting I

Accounting II is a skill level course that builds upon the foundation established in Accounting I. This course is planned to help students to develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated typed of business organization: partnerships, corporations, branches, etc. The students may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting, and others. Simulated business conditions may be provided through the use of practice sets. This course provides a technical background for college-bound students who plan a business curriculum, as well as those who wish vocational preparation.

BROADCASTING/VIDEO PRODUCTION I & II– 11051A001

1/2 credit **Grade 10, 11, 12**

Requirements: Instructor Consent

This semester long class will enable students to use new methods of video production including green screen technology, Adobe software editing/enhancement and different styles of cameras to produce fun and exciting productions. Coverage of school events, sports, and daily living will be displayed in the school newscast. Students in this fun and entertaining class should be well spoken, technologically skilled, and creative thinkers.

MEDIA I/YEARBOOK– 12053A001

1 credit **Grades 11, 12**

Prerequisite: Previous success in business courses. Selection made by instructor.

This junior/senior level course is offered for a full year and provides hands-on implementation of computer software through the production of the Okawwako yearbook. The first semester of the course will cover Adobe Photoshop CS5, which will integrate text, graphics, and other elements to create a single document. Second semester of this course will introduce the basics of Adobe InDesign CS5. Photoshop is an image editing software program that allows students to adjust digital images needed for the school yearbook.

MEDIA II/YRBOOK EDITOR– 12053A001

1 credit **Grade 12**

Prerequisite: Media I and instructor consent

Media II is a continuation of the processes begun in Media I. Students in Media II are expected to provide leadership for the production of the school yearbook which includes layout and design.

AGRICULTURE

INTRODUCTION TO AGRICULTURAL INDUSTRY- 19001A001

1 credit**Grades 9, 10, 11, 12****No prerequisites****Consumer Education Credit**

This introductory 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 production applications are presented. Basic concepts in animal science, plant science, soil science, horticulture, agricultural resources, agribusiness management, and agricultural mechanics are included. Micro-computer applications are introduced.

AG MECHANICS- 18449A001

1 credit**Grades 10, 11, 12****No prerequisites**

This course is designed to develop student knowledge and skills in the area of agricultural mechanics.

Instructional units include operating equipment safely, surveying, electrical identification, electrical wiring and applications, maintaining and repairing small gasoline engines, and alternative energy resources.

AG BUSINESS RECORDS- 18201A001

1/2 credit**Grades 11, 12****No prerequisites****Dual Credit Course****2.5 Lake Land credits****Additional fee**

Weighted Course

This first semester course is designed to develop student knowledge and skills in the area of agribusiness operations. Instruction units include the organization and functions of agricultural businesses, agricultural business math, agricultural skills, as well as sales-related duties. Another goal of this course is to increase student knowledge and skills in appropriate agricultural product and service areas indicated by regional and/or state labor market data.

FARM MANAGEMENT- 18201A001

1/2 credit**Grades 11, 12****Prerequisite: Farm Business Records****Dual Credit Course****2.5 Lake Land credits**

Weighted Course

Additional fee

This second semester course is designed to develop student skills in the areas of advanced agricultural business procedures, establishment of agricultural businesses, managing the agribusiness, financing the agribusiness, marketing and advertising, sales techniques and strategies. Product knowledge is stress as it relates to the regional agricultural economic base.

BASIC HORTICULTURE/LANDSCAPE MANAGEMENT- 18053A001

1 credit**Grades 9, 10, 11, 12****No Prerequisites****Counts as high school science credit**

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 plants in greenhouse and nursery settings; constructing, maintaining and using plant-growing structures; operating, repairing and maintaining equipment used in the horticulture field. The second semester of the course will focus on the identification, production, processing, and marketing of plants, shrubs, and trees. Additional attention will be given to establishing, maintaining, and managing horticultural enterprises. Instruction in machinery and equipment necessary for such horticultural enterprises is also included.

AGRICULTURE (CONT.)

BIOLOGICAL SCIENCE APPLIED AGRICULTURE- 18051A002

1/2 credit Grades 10, 11, 12

**Prerequisite: Consent of Ag Instructor
Counts as four year college lab science**

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 in the animal industry. This one-semester course will deepen students' understanding of science as content and as a process through the use of numerous laboratory exercises and experiments. Students can also establish a Supervised Agricultural Experience Program and participate in agricultural science activities of the FFA. (11th & 12th grades) *This course will be taught every other year.*

PHYSICAL SCIENCE APPLIED AGRICULTURE- 18449A002

1/2 credit Grades 10, 11, 12

**Prerequisite: Consent of Ag Instructor
Counts as four year college lab science**

This course is designed to reinforce and extend students' understanding of science and the scientific process by associating scientific principles and concepts with relevant applications in agriculture. Students will examine specific agricultural applications and processes and the underlying science principles explaining or controlling those applications. Numerous laboratory exercises and experiments will deepen students' understanding of scientific and agricultural content in this one-semester course while actively involving students in the process of science. Students can also establish a supervised agricultural experience program and participate in agricultural science activities of the FFA. (11th & 12th grades) *This course will be taught every other year.*

ANIMAL SCIENCE/VET. TECH. - 18105A001

1 credit Grades 10, 11, 12

**No prerequisites
Counts as high school science credit**

This course will be divided into one semester of animal science and one semester of veterinary science. It will be designed to introduce students to the animal science industry and basic veterinary procedures. Some topics covered in the Animal Sciences will include Career Opportunities, EPA Regulations, and Biotechnology in Animal Science. During semester 2 students will learn about Veterinary Terminology, Animal Behavior, Wound Management, and Animal Systems, along with other topics in Veterinary Technology.

AGRICULTURAL COOPERATIVE EDUCATION- 18348A000

1 credit Grade 12

Prerequisite: Consent of Ag Instructor

Agricultural Cooperative Education is designed for senior and junior students interested in pursuing careers in agricultural occupations. Students may be released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students' abilities to interact positively with others. *Enrollment in this course will be limited.*

SUPERVISED OCCUPATIONAL EXPERIENCE I- 22153A001

1 credit Grades 9, 10

Prerequisite: Consent of Ag instructor

This experience program is for students in the 9th and 10th grades. Students receiving vocational credit in this area must be enrolled in an approved agricultural program sequence. Individual students will have a minimum of one approved project record book work, training plans and agreements, report writing, and instructor project visitation and supervision are essentials of the supervised occupational experience. Particular attention will be paid to the establishment and planning of a multi-year experience program. *This course will be taken outside of the seven periods and therefore will not count in GPA calculations.*

AGRICULTURE (CONT.)

SUPERVISED OCCUPATIONAL EXPERIENCE II– 22153A001

1 credit Grades 11, 12 Prerequisite: Consent of Ag instructor

This experience program is for 11th and 12th grade agricultural students. The opportunities and responsibilities are similar to those discussed under Supervised Occupational Experience 9th and 10th with the exception that the experiences are conducted at a more advanced level of skill training. The project should continue to expand as the student progresses through the agricultural program. Particular emphasis will be placed on advanced management skills and techniques. *This course will be taken outside of the seven periods and therefore will not count in GPA calculations.*

FAMILY & CONSUMER SCIENCES

FOODS AND NUTRITION I - 16054A0001

1/2 credit Grades 9, 10, 11, 12 No prerequisites

This course utilizes hands-on learning to introduce students basic cooking and baking skills. Students will plan, prepare, cook, taste, and clean-up various foods throughout the course. Topics covered include: reading a recipe, meal planning, grocery shopping, knife skills, measuring skills, stovetop cooking, and basic baking, as well as kitchen organization, safety, and sanitation. Healthy living topics related to nutrition and weight management are also included.

FOODS AND NUTRITION II - 16054A0001

1/2 credit Grades 9, 10, 11, 12 Prerequisite: Foods I with a “C” or higher / consent from instructor

This course builds on topics covered in Foods and Nutrition 1. Students advance their kitchen skills to include more complicated food preparation techniques and garnishes. Topics include: budgeting for groceries, foods for all ages, international foods, and dietary challenges. Advanced nutrition topics that build from Foods and Nutrition 1 are also included. Career opportunities within the field of food production are also introduced.

CHILD DEVELOPMENT– 19052A001

1/2 credit Grades 9, 10, 11, 12 No prerequisites

This course emphasizes learning experiences which 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 duty areas: managing and organizing child development by 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; providing experience which encourages children to maximize resources; encouraging human relations skills in children; and evaluating family and career changes in relation to impact on children. Information related to careers in child care is incorporated throughout the course.

ADULTING 101 – 22210A001

**1/2 credit Grades 10, 11, 12 No prerequisites
Counts for Consumer Education Credit**

This course prepares students with the skills they need for living independently in the “real world” after high school. Students will utilize a variety of project-based experiences to gain knowledge and understanding of how to manage adult responsibilities and resources. Topics include: basic banking and financial responsibility; financial planning and money management; credit and debt; renting and homeownership; frugal shopping and consumer responsibilities; insurance; taxes; and current issues within the economy. Self-improvement topics such as goal setting, decision making, and interpersonal skills are also included.

FAMILY & CONSUMER SCIENCES (CONT.)

HUMAN DEVELOPMENT- 19053A001

1/2 credit **Grades 11, 12** **No Prerequisites**
Dual Credit Course **3 Lake Land Credits** **Additional Fee**
Counts as Social Science for four-year college endorsement

This course emphasizes human development from adolescence through maturity. Emphasis is also placed on meeting physical and psychological needs. Course content includes a focus on the physical, cognitive, and social-emotional development from infancy to adulthood. Also included is information regarding self-understanding, relationships, and career development.

EARLY CHILDHOOD EDUCATION - 19153A001

1 credit **Grades 10, 11, 12** **No Prerequisites**

This course is designed to provide students interested in a career in child and day care operations with information and practical experiences needed for the development of job-related competencies. Students will be provided laboratory experiences either in a school-based or extended campus facility. Students will be expected to develop appropriate skills in program development and in assisting with children's and/or adult's activities. Classroom study is concerned with the philosophy and management of care centers and the state and local regulations governing care-giving operations. Students in the Day Care class will have a hands-on learning experience working with children from the ages of 3-10. Students will plan and lead activities for a nursery school which will be in session four days a week. When students are not working in the nursery school, they will be student helpers in Kindergarten and the elementary school. Units on curriculum development, guidance and discipline, health and safety, rules and regulations of early childhood programs, and careers will be taught. This course is strongly recommended for students planning a career in education and child care.

INTRODUCTION TO FAMILY AND CONSUMER SCIENCES- 22201A001

1/2 credit **Grades 9, 10, 11, 12** **No prerequisites**

This course introduces students to the life skills field of family and consumer sciences (FCS). Course topics typically include a basic introduction into each of the areas of FCS, including: foods and nutrition; basic clothing maintenance and repair; child development and care; as well as basic parenting, interpersonal, and independent life management skills. Students will learn through hands-on laboratory experiences, and potential career opportunities within the broad field of family and consumer sciences are discussed.

PARENTING- 19052A001

1/2 credit **Grades 10, 11, 12** **No prerequisites**

This course is designed to help students think through the responsibilities, satisfactions and stresses of parenthood. 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 relations skills in children/adolescents; and evaluating impact on parenting of family and career changes. Special attention is given to the importance of readiness for parenthood.

DRIVER'S EDUCATION

DRIVER'S EDUCATION– 08152A000

1/4 credit

Scheduled by age

Prerequisite: Must be passing 1/2 of all classes from previous semester

Driver's Education is used to give our students the basic knowledge of the laws and physical and mental skills to be a safe driver and an efficient operator of a motor-driven vehicle on our streets. We teach the use of space, time, traction and vision to become a defensive driver, using the IPDE driving system. Units cover Rules of the Road, basic maneuvers, expressway driving, purchasing insurance, adverse driving conditions, purchasing and maintaining vehicles, IPDE, and alcohol and drugs. *State law makes it mandatory that all students be in attendance for 30 hours of class time during the quarter. Any student that does not meet this requirement will automatically fail the class for the quarter.*

PHYSICAL EDUCATION & HEALTH

HEALTH– 08051A000

1/2 credit

Grade 9, 10, 11, 12

No prerequisites

*Usually taken freshman year***Required for graduation**

This course is designed to assist students in obtaining accurate information, developing lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. Study will include personal and community health; mental, emotional, and social health; injury prevention and safety; CPR, AED, and choking; nutrition and physical activity; alcohol, tobacco, and other drugs; growth, development, and sexual health. Central themes are the acceptance of personal responsibility for lifelong health, respect for and promotion of the health of others, an understanding of the process of growth and development, and informed use of health-related information, products, and services.

PHYSICAL EDUCATION– 08001A000

1 credit

Grades 9, 10, 11, 12

Required for graduation**Students must take all four years****unless waived (11th &/or 12th years only OR Band, 9-12)**

The SHS Physical Education program is fitness-based with a focus on building muscular strength, muscular endurance, cardio-respiratory endurance, and flexibility. The course will consist of activities organized in a schedule of progression to improve the student's level of physical power and fitness. The emphasis of this class will be fitness based, while lifelong fitness activities and team sports will also be addressed periodically.

SPECIAL EDUCATION

STUDY SKILLS– 22003A000

1 credit

Grades 9, 10, 11, 12

Previously identified students

Study Skills is a required class for all Resource L.D. students. It focuses on improvement of organizational skills and helping students to be responsible for their studies. Students work on strengthening reading comprehension, vocabulary, math, and thinking skills. Assistance in test and project preparation as well as test-taking are included through this course. Each student has an IEP which lists the goals and objectives that are to be worked on during the school year. The IEP is reviewed annually with the parent. Annual goals and objectives are set in relationship to the functioning level of each individual student.

SPECIAL EDUCATION (CONT.)

TRANSITION IV/LIFE SKILLS– 22206A000

Credits based on individual courses Grades 9, 10, 11, 12 For identified students

Students in Transition IV classes have been identified to have a disability that prohibits their success in the regular education classroom. They are receiving special services generally more than 50% of the day. Curriculum is individualized according to the student's needs and each student is mainstreamed when appropriate. Emphasis is placed on academics, social skills, independence skills and pre-vocational training. Each student has an IEP, which lists the goals and objectives that are to be worked on during the school year. The IEP is reviewed annually with the parent. Annual goals and objectives are set in relationship to the functioning level of each individual student.

CAREER DEVELOPMENT

MENTORING/INTERNSHIPS– 22151A000

1 - 2 credits Grade 12

**Prerequisite: Career Skills/Work Ethics Course
Mentoring application required**

Mentoring is reserved for seniors who would like to learn more about their future career by shadowing a worker in that field. Through the mentoring program, students will learn about the knowledge and skills necessary to be successful in a career of their choice. Students will be asked to keep a journal of the activities performed at their mentoring site. *It is preferred that students mentor a worker/business person in the community, and that they mentor at least two consecutive periods, if possible.*

Internships will serve as extended Mentoring opportunities. Reserved for seniors, these internships allow students to spend multiple class periods in a business, health care, skilled trades, or manufacturing setting learning about the wide variety of careers within those settings. They will also be able to learn and practice *Prior approval must be obtained from the instructor or principal for all mentoring sites. Requests for mentoring a teacher at the high school should be justifiable and will be given careful consideration by the principal.*

CAREER SKILLS/WORK ETHICS– 22151A000

1/2 credit Grade 11

Required for graduation

This course provides students with an opportunity to explore their interests and aptitudes related to careers. Students will complete interest inventories, learn about career clusters and jobs within those clusters, and ultimately select a career to research in detail. *Career Cruising®* career guidance system will be the primary tool used as students examine careers, learn which colleges and post-secondary programs connect to their career choices, and create their own portfolios. Another important component of this course will focus on ethics in the workplace. Using the *Work Ethics Program* curriculum as a guide, students will learn about the essential work traits that are needed to make them viable and effective workers. The ten work ethics traits that will be focused on include: attendance; character; teamwork; appearance; attitude; productivity; organizational skills; communication; cooperation; respect.

FRESHMAN FOCUS/CAREERS– 22102A000

1/2 credit

Grade 9

Required for graduation

The class of 2021 will be the first to take part in this combination course. The first section of the course will focus on building skills and attitudes that students need as they navigate high school. Sample lessons may include Making the Grade, Leadership, and Safe and Healthy Decision Making. The second portion of this semester long course will center around exploration of careers and work ethics. Students will research potential careers based upon their interests, aptitudes, and temperament. Soft skills such as communication, attendance, teamwork, and responsibility related to the work place will also be explored.

CAREER DEVELOPMENT (CONT.)

CEO PROGRAM– 12053A001

2 credits

Grade 12

Requirement: Students must apply and be accepted into the program

Creating Entrepreneurial Opportunities (CEO) 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.

HEALTH OCCUPATIONS– 14051A001

2 credits

Grade 12

Requirements: Students must have no more Dual than eight (8) absences during previous school year in order to be considered; Discipline & grades also factors Additional Fee*

Credit Course

11 Lake Land Credits

Students must buy own uniform

This course includes classroom, laboratory, and clinical experience to give the student a basic understanding of the concepts and philosophy of health care. Basic skills common to most health occupations will be taught, such as vital signs, aseptic technique, and body mechanics. The course will also provide the student with a basic orientation to professionalism and its importance in the delivery of health care. Examples of units of instruction include dentistry, nutrition, medicine, nursing, psychology, social service, science and engineering, therapists, and technical instrumentation. The student will be assisted in choosing a specific health occupations career. The students upon successful completion of required material (including both classroom work and clinical experiences) will be eligible for recognition by the State of Illinois Department of Public Health as having completed training for basic nurse assistant. A certificate of such recognition shall be presented. ***A course fee of \$200 will be assessed for students enrolled in the Health Occupations Program. This fee must be paid at the time of registration for the class.**

SHS CORE COURSES APPROVED BY THE NCAA

The following Shelbyville High School courses have been approved by the NCAA as “Core” Courses* for the purposes of Division I and Division II athletic eligibility:

English

English I or H	1 cr.
English II or H	1 cr.
English III or H	1 cr.
English IV	1 cr.
Composition I	1/2 cr.
Composition II	1/2 cr.
Advanced Literature	1 cr.
Speech	1/2 cr.

Social Science

Civics	1/2 cr.
Economics	1/2 cr.
Geography	1/2 cr.
Psychology	1/2 cr.
Sociology	1/2 cr.
U.S. History 1945+	1/2 cr.
Government	1/2 cr.
U.S. History	1 cr.
World History	1 cr.

Additional Core Courses

Spanish I	1 cr.
Spanish II	1 cr.
Spanish III	1 cr.
Spanish IV	1 cr.

Math

Algebra I	1 cr.
Algebra II	1 cr.
Geometry	1 cr.
PreCalculus	1 cr.
Calculus	1 cr.
College Algebra	½ cr.
Statistics	½ cr.

Natural/Physical Science

Anatomy & Phys.	1 cr.
Biology	1 cr.
Biology II	1 cr.
Zoology	1 cr.
Chemistry	1 cr.
Adv. Chemistry	1 cr.
Physical Science	1 cr.
Microbiology	1/2 cr.
Physics	1 cr.
Adv. Physics	1 cr.
Bio. Sci. App. Ag.	1/2 cr.
Phy. Sci. App. Ag.	1/2 cr.
Enviro. Biology	1 cr.
Bioethics	½ cr.

**Courses not found on the lists above cannot be used in the multiplier when calculating a student’s athletic eligibility for Division I or II participation*