

COURSE DESCRIPTIONS

SHELBYVILLE HIGH SCHOOL

DEAR STUDENT,

We are so incredibly excited to share our updated and improved course catalog with you. Included in this document, you will find a diverse assortment of high school courses that are specific to your interests and that will undoubtedly serve to enhance your personal growth and development.

Shelbyville High School is an area leader in regard to college and career development. The associated standards of excellence are designed to be relevant to the real world, allowing students to master more critical-thinking and unique problem-solving skills, and to reflect the knowledge, skills and social foundations that students need for success in college and within their career of choice.

There exist very high performance expectations in the real world of college and careers. With this in mind, we have aligned our educational standards to meet those expectations. We believe that doing so, will provide families and our community with an accurate sense of student progress during their developmental years.

Every student will have the opportunity to sign up and select courses that are of interest to them. In the coming days, we will provide additional guidance that is designed to help ensure that every student is on track to meet the established graduation requirements, while also being able to select elective courses that are most appropriately tailored to their own interests and ambitions.

If you have any questions during this process, please do not hesitate to reach out to the guidance counselor, the school administration, or the content specific teachers. Your finalized schedules will be available for review before the start of the next school year. We will do our best to comply with your preference, but please understand that student choice does not necessarily mean that all requests will be guaranteed without the prior approval of the school administration.

Yours in Education,

Mr. Ladd | Principal

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 circumstances 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 toward 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)
- 3 Credits of Science (*starting with the class of 2024*) (2 credits of Science are required for grades 11-12)
- 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 Freshmen Focus/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:

Adulting 101

Intro to Business

Economics

Intro to Agriculture

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.)	CAD I or II (1 Cr.)	Programming I (1/2 Cr.)
Programming II (1/2 Cr.)	Accounting I or II (1 Cr.)	Intro Graphic Design (1/2 Cr.)
Robotics (1/2 Cr.)	Digital Literacy & Resp. (1/2 Cr.)	

COURSE REQUIREMENTS BY GRADE LEVEL

FRESHMEN

- **English I** (English I, or if recommended, English I Honors)
 - **Science** (Choose 2 out of the following: Biology, Earth & Space, Ecology, and Physical Science)
 - **Math** (Choose from Algebra I or Geometry – Algebra Concepts may also be recommended)
 - **Freshmen Focus/Careers** (1/2 year course)
 - **Health** (1/2 year course)
 - **P.E.** (Full year. May be waived for Band. Driver's Ed will replace one quarter of 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 in sequence)
 - **U.S. History**
 - **Science** (Class of 2024 & 2025)
 - **P.E.** (May be waived for Band or sports in season – see counselor)
- 5 Required Credits** + 2 Elective Credits = 7 Credits

SENIORS

- **English** (Courses include: Speech, Composition, English IV, & Adv. Literature)
 - **Civics** (1/2 year course; may be taken Junior year if requested)
 - **P.E.** (May be waived if certain criteria are met – see counselor)
- 2 Required Credits** + 5 Elective Credits = 7 Credits

Additional Course Requirements Include the Following:

- **Consumer Education** (1/2 credit)
- **Computer Oriented Technology** (1 credit)
- **Foreign Language, Music, Art, or Vocational Education** (1 credit)
- **Science** (additional credit starting with class of 2024) (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 four-year institutions as meeting lower division general educational requirements.

SHS Course	Lake Land Course	Abbrev.	Credit Hrs.
(T) Environmental Biology	Environmental Science	BIO 130	4 Credit hours
(T) Human Development	Human Development/Life Span	PSY 279	3 Credit hours
(T) Statistics	Statistics	MAT 125	3 Credit hours
(T) Calculus	Analytical Geo. & Calculus I	MAT 241	5 Credit hours
(LL) Understanding Art	Understanding Art	ART 250	3 Credit 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 Credit hours
(LL) Farm Management (Sem. 2)	Farm Management	AGR 122	2.5 Credit hours
(LL) Pre-Calculus	Algebra with Trigonometry	MAT 140	5 Credit hours
(LL) College Algebra	College Algebra	MAT 130	3 Credit hours
(LL) Jazz Choir	Community Choir	MUS 104	1 Credit hour
Shelby County CEO	Internship/Cooperative Ed.	INS 200	8 Credit hours

(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) CAD I (Sem. 1)	Intro. To Drafting	TEC 045	2 Credit hours
(N) CAD I (Sem. 2)	CAD I	CAD 056	2 Credit hours
(N) CAD II (Sem. 1)	CAD II	CAD 057	3 Credit hours
(N) CAD II (Sem. 2)	3D Solid Modeling	CAD 060	3 Credit hours
(N) Welding I	Welding Fundamentals	WEL 057	2.5 Credit hours
(N) Health Occupations**	Allied Health	AHE 040	8 Credit hours
(N) Health Occupations**	Health Science Careers	AHE 052	3 Credit hours

*Students will be assessed a rental fee of **\$18.42 per credit hour**. Additional charges for textbooks may apply.

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 Credit hours
(T) Sociology	Introductory Sociology	SOC 1838G	3 Credit hours

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

(EIU) CATEGORY: **Eastern Illinois University (EIU)** courses can be used for degrees/certificates at EIU and that may be transferable, depending upon the selected major.

SHS Course	Lake Land Course	Abbrev.	Credit Hrs.
(EIU) Advanced Literature	Stories Matter	ENG 1009G	3 Credit 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- 01001A000

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

Freshmen 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, vocabulary, 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, Anthem, Peace, 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 identify and include *A Separate Peace, Anthem, Animal Farm, and Lord of the Flies* as core works.

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 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 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 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, play, short stories, nonfiction, and poetry and will learn to analyze, synthesize, and evaluate a range of literacy themes and concepts. An average of 3 novels/plays will be read each semester, including but not limited to *The Great Gatsby*, *The Crucible*, and *Fahrenheit 451*. 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 cumulative 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 cumulative GPA of at least 3.0

In this semester long, advanced 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**

ADVANCED LITERATURE/STORIES MATTER- 01053A000

**1 Credit Grade 12 Prerequisite: Students must have a B- or above in English IIIH
Weighted Course or Teacher Recommendation AND a cumulative GPA of 3.0
Dual Credit Course 3 credits, EIU Additional Fee**

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 using 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.

ENGLISH IV – “Fear and Identity”- 01004A000

1/2 or 1 Credit Grade 12 No prerequisite

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 – “Science Fiction/Heroes and War”- 01004A000

1/2 or 1 Credit Grade 12 No prerequisite

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 representation themes and methods of storytelling through novels, short stories, films, and other media. Students will read two or more novels during the first semester including but not limited to *The Hitchhiker’s Guide to the Galaxy* and *Island of Dr. Moreau*. The second semester shifts to literature which consists of short stories and novels about modern wars. 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- 06101A000

1 Credit Grades 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-” or higher in Spanish I* or Instructor Consent

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

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

SPANISH III- 06103A000

1 Credit Grades 11, 12 Prerequisite: “B-” or higher in Spanish II or Instructor Consent

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- 06104A000

1 Credit Grade 12 Prerequisite: “B-” or higher in Spanish III or Instructor Consent

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, and function notation and evaluation.

ALGEBRA I- 02052A000

**1 Credit Grades 9, 10, 11, 12 No Prerequisite
Counts as four-year college core course**

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

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, areas, volume, coordinate geometry, and transformations. **Recommended: Scientific Calculator.*

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. **Recommended: Scientific Calculator.*

ALGEBRA II CONCEPTS- 02069A000

**1 Credit Grades 11, 12 Prerequisite: Successful completion of Geometry, Geometry Concepts, or consent of Math Instructor
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. **Recommended: Scientific Calculator.*

ALGEBRA II- 02056A000

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

PRECALCULUS- 02110A000

**1 Credit Grades 11, 12 Prerequisite: Successful completion of Algebra II
Counts as four-year 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 trigonometric functions, analytical trigonometry, and sequences and series. *Students will be required to test in to this course to gain college credits.*

STATISTICS- 02201A000

1/2 Credit **Grades 11, 12** **Prerequisite: Successful completion of Algebra II**
Counts as four-year college core course **Required: TI-84 Plus Graphing Calculator**
Dual Credit Course **3 Lake Land Credits** **Additional Fee**

Topics covered 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 into this course to gain college credits. ***This course is designated as Transitional Math for students.***

COLLEGE ALGEBRA- 02057A000

1/2 Credit **Grades 11, 12** **Prerequisite: Successful completion of Algebra II**
Counts as four-year college core 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 into this course to gain college credits.*

CALCULUS- 02121A000

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

The topics covered in this course 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

9th Algebra Concepts
 10th Geometry Concepts
 11th Algebra II Concepts

Sequence 2

9th Algebra I
 10th Geometry
 11th Algebra II

Sequence 3

9th Algebra I
 10th Geometry
 11th Algebra II
 12th Statistics (D) or College Algebra (D) or Both

Sequence 4

9th Algebra I
 10th Geometry*
 10th Algebra II*
 11th Precalculus (D)
 12th Statistics (D) or College Algebra (D) OR
 Calculus (D,W) (if double-up on Geo & Alg. II in 10th grade)

Sequence 5

9th Geometry
 10th Algebra II
 11th Precalculus (D)
 12th Statistics (D) or College Algebra (D) or Both

Sequence 6

9th Geometry
 10th Algebra II
 11th Precalculus (D)
 12th Calculus (D,W)

*Strong math students, with teacher's permission, may "double up" Geometry and Algebra II during their sophomore year to take Precalculus and Calculus during their junior and senior years.

(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

1/2 Credit Grades 9, 10, 11, 12 Counts as four-year college lab science

This course 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 Science. 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 those subjects.

BIOLOGY- 03051A000

1/2 Credit Grades 9, 10, 11, 12 Counts as four-year college lab science

Biology is a semester 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.

EARTH AND SPACE SCIENCE- 03008A000

1/2 Credit Grades 9, 10, 11, 12 Counts as four-year college lab science

Earth & Space Science is a course designed around our Earth and its systems. The interaction between those systems on multiple scales will be highlighted throughout this semester long course. Roughly one half of the course is focused on Earth systems and one half of the course is focused on space and its exploration.

ECOLOGY- 03003A000

1/2 Credit Grades 9, 10, 11, 12 Counts as four-year college lab science

Ecology is the study of the interactions between organisms and their environment. This course provides a background in the fundamental principles of ecological science, including concepts of natural selection, population and community ecology, biodiversity, and sustainability. The course will also explore some of today's major ecological challenges, and the important research that is being done to address these concerns.

PRINCIPLES OF ENGINEERING- 21004A000

1/2 Credit Grades 10, 11, 12 No prerequisites

Principles of Engineering courses provide students with an understanding of the engineering/technology field. Students typically explore how engineers use various technology systems and manufacturing processes to solve problems; they may also gain an appreciation of the social and political consequences of technological change.

ZOOLOGY- 03061A000

**1 Credit Grades 10, 11, 12 Prerequisite: Successful completion of Biology
Counts as four-year college lab science**

Zoology is the 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.

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, including microscope use and growth of bacterial, protist, fungal, and algal cultures in the laboratory.

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, 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 Credit****Grades 11, 12****Prerequisite: "B-" or better in Chemistry both semesters
Counts as four-year college lab science****Weighted Course**

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: "B" or better in two years of high school math (1
year must be Algebra 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 covers 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- 03052A000**1 Credit****Grades 11, 12****Prerequisite: Chemistry or Instructor Consent****Recommended: "B" average in English****Weighted Course****Counts as four-year college lab science****Dual Credit Course****4 Lake Land credit hours; Additional Fee**

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****Counts as four-year 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 11****No prerequisites
Required for Graduation**

Civics is 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 208-2020 will have taken Civics during 9th grade.*

GEOGRAPHY- 04001A000

1/2 Credit**Grade 9, 10, 11, 12****No prerequisites**

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**Grade 11, 12****No prerequisites**

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 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- 04259A000

1/2 Credit**Grade 12****No prerequisites**

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.

SOCIOLOGY-COLLEGE LEVEL- 04258A000

1/2 Credit**Grade 12****Prerequisite: Must have a cumulative GPA of at least 3.0
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.*

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 Credit **Grade 12** **Prerequisite: "B-" or better in U.S. History OR Instructor Weighted Course** **Consent**

This elective course will cover United States history from the end of World War II 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 **Grade 11, 12** **No Prerequisites**
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 & 12 only) **1 Lake Land Credit** **Additional Fee**

Jazz Choir provides instruction in four- to eight-part singing. Using 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- 05110A000

1 Credit **Grades 9, 10, 11, 12 No prerequisite**

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.

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 musician. 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 performance 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.*

CREATIVE ART-DRAWING - 05156A000

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

This studio course is a one semester elective offered to students who have a desire to learn the fundamental skills of drawing from reality. The course is highly recommended for the student who plans to take Art 250, other art electives, and those who plan to pursue any visual art pathway. Measuring with a ruler, estimating size and visualizing proportional relationships are necessary skills that will be built in this sequential, traditional course of study. Sketchbook journal assignments are an important part of the course and independent practice and application of learned skills are recommended for success.

CREATIVE ART-PAINTING- 05157A000**1/2 Credit Grades 9, 10, 11, 12 No prerequisites**

This studio course is a one semester elective offered to students who have a desire to learn the fundamental skills of painting. This course provides the foundation of painting, its application, and materials. It focuses on the color theory and the process of wet-into-wet, dry-brush paint application, masking, and alla prima. Working from direct observation, students develop an understanding of composition and paint manipulation. Solid drawing skills are recommended for success in this course. ****It is recommended that you take Drawing before this class.***

CREATIVE ART-SCULPTURE - 05158A000**1/2 Credit Grades 9, 10, 11, 12 No prerequisites**

This studio course is a one semester elective offered to students who have a desire to learn the fundamental skills of ceramics and offers an opportunity for students who wish to create three-dimensional art. Students will explore the element of form using a variety of materials such as clay, plaster, wood, and plastics. Students will also learn the methods of working with clay such as coiling, slab building, and working the kiln. Students are encouraged to explore individual styles while producing a diverse body of three-dimensional work. ***It is recommended that you take Drawing and/or Design before this class.***

CREATIVE ART-DESIGN- 05160A000**1/2 Credit Grades 9, 10, 11, 12 No Prerequisites**

2D Art Design is a studio project oriented class exploring different media areas of 2-Dimensional design. The emphasis of this course is to expose students to 2D art mediums and to build their creative skills through the elements and principles of design. Projects may include Abstract Drawing, Perspective Drawing, Portrait Drawing, Collage, Charcoal, Optical Art, Pastel Drawing, Scratchboard, and painting some of the projects that could be covered.

ART 250- UNDERSTANDING ART- 05151A000**1 Credit Grade 11, 12 Prerequisite: Approval of Art Instructor
Dual Credit Course 3 Lake Land credit hours Additional Fee**

This is a dual credit class through Lakeland Community College. Students will learn the visual components, methods, and historical trends of the visual arts from ancient to contemporary times, and understand the major visual and cultural relationships to the art forms. Exams, research papers, and other activities will be the majority of grades for this course. **Textbook:** Understanding Art, Lois Fichner-Rathus, Publisher Wadsworth (Cengage Learning), 9th Ed. 2013.

ART IV-Independent Exploration- 05170A000**1 Credit Grade 12 Prerequisite: Approval of Art Instructor**

Students will continue working in a variety of 2-dimensional and 3-dimensional materials focused on their own interests in art. Students are also required to maintain a sketchbook that will consist of students' personal interest and some assigned material that will be regularly graded. Students will communicate ideas regularly at a high level 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 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 4 students including acrylic paint, canvas board, ceramics, plaster casting, etc. This class will have a portfolio review at the end of the year consisting of all works created during their final year of high school.

INDUSTRIAL TECHNOLOGY

TECH 1A- 11002A001

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

CTE Course

Transportation (Engines) – 1140

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, using manuals and lab work.

Communications – 1160

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

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

CTE Course

Production (Woodworking) - 1120

Production I, procedures, corporate 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 – 1180

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

CTE Course

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 12 Prerequisites: Successful completion of CAD I****CTE Course****Dual Credit Course****6 Lake Land credit hours Additional fee**

This course continues the learning of the 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 of a house model as well as multiple functional 3D models that will be created by a 3D printer.

BEGINNING CONSTRUCTION- 17002A001**1/2 Credit Grades 11, 12 Prerequisites: Tech IB with "C" or better; Consent of Instructor****CTE Course**

This course exposes students to the opportunities available in construction related trades, such as carpentry, masonry, air conditioning/refrigeration, and plumbing. Students learn about the processes involved in construction projects and may engage in a variety of small projects.

INTRODUCTION TO WELDING- 13207A001**1/2 Credit Grades 9, 10, 11, 12 No prerequisites****CTE Course**

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****CTE Course****Dual Credit Course****2.5 Lake Land credit hours Additional Fee**

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, and Gas Shielded-Arc Welding, and Special Welding processes.

WELDING II- 13207A002**1/2 Credit Grades 9, 10, 11, 12 Prerequisites: Grade of "B" or above in Welding I or Consent of the 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 Plasma Cutting techniques. *Additional fees incurred will be based upon the project chosen by the student.*

ADVANCED WELDING TECHNIQUES- 13207A001**1/2 Credit Grades 10, 11, 12 Prerequisites: 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- 13055A001**1 Credit Grades 10, 11, 12 No prerequisites****CTE Course**

This course 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**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.

COMPUTER APPLICATIONS- 10004A000**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.

DIGITAL LITERACY- 10008A001**1/2 Credit Grades 9, 10, 11, 12 No prerequisites****CTE Course**

This foundation-level course prepares students to use technology in a proficient and responsible manner in school, in the workforce, and in everyday life. The course contains skills for working in an Internet or networked environment and the knowledge of what it means to be a good digital citizen and the ability to use technology responsibly. Topics include the benefits and risks of sharing information online, and the possible consequences of inappropriate sharing (oversharing). Students explore the legal and ethical dimensions of respecting creative work. Technology use is a vital employability skill for entry-level and upper-level management positions. Students may be provided with the opportunity to seek industry recognized digital literacy certifications.

INTRODUCTION TO GRAPHIC DESIGN- 10004A001**1/2 Credit Grades 9, 10, 11, 12 No prerequisites****CTE Course**

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.

PROGRAMMING I- 10152A001**1/2 Credit Grades 9, 10, 11, 12 No Prerequisites****CTE Course**

This course will walk students through computational thinking, programming, data representation with a focus on programming in Scratch, and learning initial data structures (i.e., loops, iteration, conditional statements).

PROGRAMMING II- 10152A002

1/2 Credit Grades 9, 10, 11, 12 Prerequisite: Successful completion of Programming I
CTE Course

This course will cover digital media processing, big data, innovative technologies with a focus on programming in Python, and learning about more advanced data structures (e.g., data abstraction, data aggregation, encoding schemes).

ROBOTICS- 21009A000

1/2 Credit Grades 9, 10, 11, 12 No Prerequisites

Students will design code to complete tasks with various student-oriented robots. Students will learn coding skills, problem solving, and teamwork. We will use Edison and EV3 robots. If time permits, we will also design and build robots.

ENTREPRENEURSHIP- 12053A000

1 Credit Grades 11, 12 No prerequisites, but preference given to students who have taken or are currently enrolled in Accounting I

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
CTE Course

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 help management make decisions. 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: Successful completion of Accounting I
CTE Course

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 types 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. Stimulated 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.

AGRICULTURE

INTRODUCTION TO AGRICULTURAL INDUSTRY- 18001A001

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 BUSINESS RECORDS- 18201A001

1/2 Credit **Grades 11, 12** **Prerequisite: Must have a cumulative GPA of at least 3.0**
CTE Course **or Consent of Instructor**
Dual Credit Course **2.5 Lake Land credits** **Additional Fee**
Weighted Course

This 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 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- 18449A001

1/2 Credit **Grades 11, 12** **Prerequisites: Ag Business Records or Consent of Instructor**
CTE Course
Dual Credit Course **2.5 Lake Land credits** **Additional Fee**
Weighted Course

This 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 stressed as it relates to the regional agricultural economic base.

BASIC HORTICULTURE/LANDSCAPE MANAGEMENT- 18053A001

1 Credit **Grades 9, 10, 11, 12 No prerequisites**
CTE Course

COUNTS AS A 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 setting; 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.

NATURAL RESOURCES CONSERVATION MANAGEMENT- 18054A002

1/2 Credit **Grades 10, 11, 12 No prerequisites**
CTE Course **IN PARTNERSHIP WITH U.S. ARMY CORPS OF ENGINEERS**

COUNTS AS A HIGH SCHOOL SCIENCE CREDIT

This course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills and developed in understanding natural resources and its importance: fish, wildlife, and forestry management and conservation, and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations. *This course is in partnership with the U.S. Army Corps of Engineers*

AGRICULTURAL SALES AND MARKETING- 18202A001**1/2 Credit Grades 10, 11, 12 No prerequisites****CTE Course IN PARTNERSHIP WITH SOFTWARE SOLUTIONS INC.**

This course is designed to develop student knowledge and skills in Agricultural Sales, Agribusiness Marketing, and Commodity Marketing. Instructional units include agricultural economic principles, marketing and advertising, product development, sales techniques and strategies, communicating with employees and customers, managing risk, international agribusiness, and studying various agricultural companies and career opportunities. *This course is in partnership with Software Solutions Incorporated.*

ANIMAL SCIENCE/VET. TECH.- 18105A001**1 Credit Grades 10, 11, 12 No prerequisites****CTE Course 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 the second semester, students will learn about Veterinary Terminology, Animal Behavior, Wound Management, and Animal Systems, along with other topics in Veterinary Technology.

AGRICULTURAL COOPERATIVE EDUCATION- 18998A001**1 Credit Grades 10, 11, 12 Prerequisites: Consent of Ag Instructor****CTE Course**

Agricultural Cooperative Education is designed for juniors and seniors 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' ability to interact positively with others. This course is for students interested in teaching agriculture in the classroom. *Enrollment in this course will be limited.*

SUPERVISED OCCUPATIONAL EXPERIENCE I - 18998A002**1 Credit Grades 11, 12 Prerequisites: Consent of Ag Instructor****CTE Course**

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 essential 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.*

FAMILY & CONSUMER SCIENCES

NUTRITION AND CULINARY ARTS I- 16054A0001

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

CTE Course

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.

NUTRITION AND CULINARY ARTS II- 16054A0002

1/2 Credit Grades 9, 10, 11, 12 Prerequisites: Foods I with a "C" or higher or Consent from instructor

CTE Course

This course builds on topics covered in Foods and Nutrition I. 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 I are also included. Career opportunities within the field of food production are also introduced.

CHILD DEVELOPMENT- 19052A000

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 9, 10, 11, 12 No prerequisites

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.

HUMAN DEVELOPMENT- 19053A001

1/2 Credit Grades 11, 12

No prerequisites

Dual Credit Course

3 Lake Land Credits

Additional Fee

CTE Course

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****CTE Course**

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****CTE Course**

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 9, 10, 11, 12 No prerequisites****CTE Course**

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.

CLOTHING AND TEXTILES- 19201A001**1/2 Credit Grades 9, 10, 11, 12 No prerequisites**

This course is designed to provide basic knowledge and understanding of the design, development, and production of textile products. Through hands-on and project based learning experiences, students will discover fiber characteristics, fabric construction methods, elements of science and design in textile and apparel, and basic construction skills used in the apparel industry and in interior furnishings. This course emphasizes awareness and investigation of careers and industry trends in textiles.

DRIVER'S EDUCATION

DRIVER'S EDUCATION- 08152A000

1/4 Credit **Scheduled by age** **Prerequisites: Must be passing ½ 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 **Grades 9, 10, 11, 12 No prerequisites**
Usually taken during 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

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 throughout 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.

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.

RTI STUDY SKILLS- 22003A000**1 Credit Grades 9, 10, 11, 12 Previously identified students - Administrative Approval Required**

Response to Intervention (RTI) Study Skills is for identified students who may benefit from small group instruction who are not previously identified for special education. 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 throughout this course. Annual goals and objectives are set based on the academic progress of each individual student.

CAREER DEVELOPMENT**COOPERATIVE EDUCATION- 22153A001****1-2 Credits Grade 12 Prerequisite: Application and approval required****CTE Course**

Cooperative Education is designed for seniors interested in pursuing careers within our local industry. Students are released from school for their paid cooperative educational work experience. They will periodically participate in instruction focusing on job survival skills, career exploration skills related to the job, and human relations skills.

FRESHMAN FOCUS/CAREERS- 22102A000**1/2 Credits 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 the 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.

CEO PROGRAM- 12053A001**2 Credits Grade 12 Prerequisites: Students must apply and be accepted into the program**

Creating Entrepreneurial Opportunities (CEO) is a year-long course designed to utilize partnership that provide an overview of business development and processes. Our local business community partner with area tours, and one-on-one mentoring. Students visit area businesses, learning 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 emphasized.

HEALTH OCCUPATIONS- 14051A001

2 Credits Grade 12

Dual Credit Course

11 Lake Land Credits

CTE Course

Prerequisites: Students must meet academic, attendance, and behavioral requirements to apply

Students must buy their own uniform

Additional Fee*

This course includes classroom, laboratory, and clinical experience to provide 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. Upon successful completion of required material (including both classroom work and clinical experiences), the student will be eligible for recognition by the State of Illinois Department of Public Health as having completed training for basic nurse assistant. ***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	½ cr.
Composition II	½ cr.
Advanced Literature	1 cr.
Speech	½ cr.

Social Science

Civics	½ cr.
Economics	½ cr.
Geography	½ cr.
Psychology	½ cr.
Sociology	½ cr.
U.S. History 1945+	½ cr.
Government	½ 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 & Physiology	1 cr.
Biology	1 cr.
Biology II	1 cr.
Zoology	1 cr.
Chemistry	1 cr.
Advanced Chemistry	1 cr.
Physical Science	1 cr.
Earth & Space Science	½ cr.
Ecology	½ cr.
Microbiology	½ cr.
Physics	1 cr.
Advanced Physics	1 cr.
Bio. Sci. App. Ag.	½ cr.
Phy. Sci. App. Ag.	½ cr.
Environmental Biology	1 cr.
Bioethics	½ cr.

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