

COURSE DESCRIPTIONS

SHELBYVILLE HIGH SCHOOL

SHELBYVILLE HIGH SCHOOL HAS BEEN RANKED AS A **TOP PERFORMING** SCHOOL IN THE STATE OF ILLINOIS.

100%

Percentage of teachers who reported that they look forward to coming to work every day.

Percentage of students who reported a high level of trust and respect toward their teachers.

99%

24 COLLEGE CREDIT COURSES OFFERED

Up to one full year of college can be earned before graduating from high school

HIGH STUDENT ACHIEVEMENT

98%

OF CLUBS & ORGANIZATIONS FOR STUDENTS TO BE INVOLVED IN AT THE HIGH SCHOOL

38

Percentage of parents who feel appropriately informed and updated

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.
- 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
- 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

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.)
Accounting I or II (1 Cr.)	Intro Graphic Design (1/2 Cr.)	Media I/II (1 Cr.)
Robotics (1/2 Cr.)		Website Design (1/2 Cr.)
Advanced Programming: Python (1/2 Cr.)		Advanced Programming: Object Oriented (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, Pre-Physics, and Pre-Chemistry)
 - **Math** (Choose from Algebra I or Geometry – Algebra Concepts may also be recommended)
 - **Health** (1/2 year course)
 - **P.E.** (Full year. May be waived for Band. Driver's Ed will replace one quarter of P.E.)
- 4.5 Required Credits** + 2.5 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**
 - **Civics** (1/2 year course; may be taken senior year if the student is in good standing)
 - **P.E.** (May be waived for Band or sports in season – see counselor)
- 5.5 Required Credits** + 1.5 Elective Credits = 7 Credits

SENIORS

- **English** (Courses include: Speech, Composition I/II, 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 the Following:

- **Consumer Education** (1/2 credit)
 - **Computer Oriented Technology** (1 credit)
 - **Foreign Language, Music, Art, or Vocational Education** (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

(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) Calculus	Analytical Geo. & Calculus I	MAT 241	5 Credit Hours
(T) Composition I	Composition I	ENG 120	3 Credit Hours
(T) Composition II	Composition II	ENG 121	3 Credit Hours
(T) Environmental Biology	Environmental Science	BIO 130	4 Credit Hours
(T) Human Development	Human Development	PSY 279	3 Credit Hours
(T) Introduction to Literature	Introduction to Literature	LIT 130	3 Credit Hours
(T) Statistics	Statistics	MAT 125	3 Credit Hours
(T) Understanding Art	Understanding Art	ART 250	3 Credit Hours
(T) Art History	Art History	ART 260	3 Credit Hours
(T) Speech	Intro to Speech Communication	COM 111	3 Credit Hours

(LL) CATEGORY: **Lake Land** Courses numbered "100" level or above that can be used for degrees/certificates at Lake Land and 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
Shelby County CEO	Business Career Development Introduction to Business	BUS 120 BUS 142	6 Credit Hours
(LL) Introduction to Education	Introduction to Education	EDU 100	3 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 College.

SHS Course	Lake Land Course	Abbrev.	Credit Hrs.
(N) Greenhouse Mgt. & Production	Greenhouse Mgt. & Production	HRT 057	3 Credit Hours
(N) Welding I	Welding Fundamentals	WEL 057	2.5 Credit Hours
(N) Health Occupations**	Basic Nursing Assistant	AHE 040	7 Credit Hours
(N) Automotive Prog. – SEM #1	Automotive Technology	Multiple	7 Credit Hours
(N) Automotive Prog. – SEM #2	Automotive Technology	Multiple	6.5 Credit Hours
(N) Writing for Industry	Writing for Industry	ENG 050	3 Credit Hours

CAREER DEVELOPMENT | DUAL ENROLLMENT PROGRAMS

Courses designated to be Dual Enrollment are open to juniors and seniors. Students must be carrying a cumulative GPA of 3.0 or above, they must be on track toward graduation, and they must not have been designated as chronically truant in order to be eligible. *An additional fee will be charged for these courses of study. *Students are responsible for their own weekly transportation when traveling to off-site placements.

MANUFACTURING SKILLS CERTIFICATE (13203A007)

16 HOUR PATHWAY PROGRAM AT SHELBYVILLE HIGH SCHOOL

This unique course structure is sponsored and supported by Lake Land College and the local industry partners in Shelbyville, Illinois. It is offered at Shelbyville High School during a 2 hour block each school day. The students will earn a wide variety of industry specific certifications (OSHA, Forklift, Welding, etc.).

TEC-043 Industrial Safety – 1 credit hour
 TEC-046 Manufacturing Skills 1 – 2 credit hours
 TEC-047 Manufacturing Skills 2 – 2 credit hours
 TEC-049 Manufacturing Skills 3 – 2 credit hours
 TEC-051 Manufacturing Skills 4 – 2 credit hours
 APT-041 Applied Mathematics I – 3 credit hours
 TEC-090 Education to Careers – 3 credit hours
 TEC-055 Special Topics in Technology – 1 credit hour

INTRODUCTION TO SPEECH COMMUNICATION (COM-111)

ONLINE FORMAT | AT SHELBYVILLE HIGH SCHOOL | COST: \$150

This course focuses on the fundamental principals and methods of selecting, analyzing, organizing, developing and communicating information, evidence and points of view to audience. A qualified teacher in the building will facilitate the in-person atmosphere, while the dual credit content is delivered in an online format by a LLC instructor.

AUTOMOTIVE/WELDING/ELECTRICAL SYSTEMS

LAKE LAND COLLEGE | MATTOON, ILLINOIS | COST \$170

This series of dual credit courses will meet at Lake Land College every day of the week between the hours of 8:00am - 10:00am. Within this program, space is limited, additional fees are assessed, and final placement requires administrative approval. The students involved will be required to transport themselves to and from the Lake Land College campus in Mattoon, Illinois. Regular and reliable attendance is an expectation.

HVAC/GREEN ENERGY

LIFT REGIONAL INNOVATION & TECHNOLOGY CENTER | MATTOON, ILLINOIS

This series of courses will meet at the LIFT Facility in Mattoon, Illinois, every day of the week. Hours of available will vary, so students should discuss scheduling with the guidance counselor or the building principal. Within this program, space is limited, additional fees are assessed, and final placement requires administrative approval. The students involved will be required to transport themselves to and from the LIFT Facility in Mattoon, Illinois. Regular and reliable attendance is an expectation. Certifications earned will likely include: HVAC 1, HVAC 2, HVAC Workplace Experience, Energy Utilization Technology, Alternative Energy, Mechatronics, Energy Workplace Experience, and a workplace experience in the areas of Science/Technology/Engineering/Mathematics. COST: \$170

CDL COMMERCIAL DRIVER'S LICENSE CLASS A THEORY COURSE

IN PARTNERSHIP WITH LAKE LAND COLLEGE (08199A000)

The Commercial Driver's License Class A Theory Course is designed to teach the classroom portion of the entry level driver training rule. This course will cover the knowledge needed to operate the commercial motor vehicles as well as additional duties that a driver is required to perform in addition to driving. The CDL Class A Behind the Wheel course must be completed within one year to be eligible for licensure. COST: TBD

WORK BASED LEARNING/COOPERATIVE EDUCATION - 22153A001**1-2 Credits Grade 12 Prerequisite: Application and approval required**

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.

CEO PROGRAM- 12053A001 | DUAL CREDIT**6 Credits Grades 11 & 12 Prerequisites: Student; must apply and be accepted**

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- SEM #1 14051A001 / SEM #2 14002A002 | DUAL CREDIT**2 Credits Grades 11, 12 8 Lake Land Credits Student; must buy their own uniform
Prerequisites: Student; must meet academic, attendance, and behavioral requirements to apply
CTE Course 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.**

INTRODUCTION TO EDUCATION | 3 Hours of LLC Dual Credit | EDU 100**½ Credit 11/12 Grade Additional Fees May Apply Admin. Approval**

An overview of the American education system. Social, historical and philosophical foundations give perspective to an examination of current issues, policies and trends in the field of education, including cultural diversity. A 30-hour practical lab is required for this course. This course will be offered at Shelbyville High School. Other students from throughout Shelby County may attend. **MAY BE OFFERED AGAIN IN THE FUTURE**

Shelbyville High School offers students the chance to earn industry recognized certifications. These are programs that are usually completed in a year or less and provide specialized training within a particular career path. Earning certifications are important because they show employers that you are “job ready” and well trained within your career field.



ECE CERTIFICATION EARLY CHILDHOOD EDUCATION

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 Enriched Expectations with No Red Ink Software

Prerequisite: 8th Grade English/Reading Performance & 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, and the quality of work will be held to higher standard.

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*, *Peace*, *Animal Farm*, and *Lord of the Flies* as core works.

ENGLISH II HONORS- 01002A000

1 Credit Grade 10 Enriched Expectations with No Red Ink Software

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. Honors students will be expected to complete assignments at a faster pace, and the quality of work will be held to higher standard.

ENGLISH III- 01003A000 | MEETS THE ISBE WRITING INTENSIVE REQUIREMENT

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 | MEETS THE ISBE WRITING INTENSIVE REQUIREMENT**1 Credit Grade 11 Enriched Expectations with ACT Preparation****Completion of English IIIH 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)*. Honors students will be expected to complete assignments at a faster pace, and the quality of work will be held to a higher standard.

COMPOSITION I | ENG 120 | DUAL CREDIT | 01103A000**1/2 Credit Grades 11, 12 Prerequisite: Must have a cumulative GPA of at least 3.0****Dual Credit Course 3 Lake Land Credits Additional Fee**

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. *Students will be required to test into this course to gain college credits. Juniors may take this course as an "elective." English III or IIIH will still be required*

COMPOSITION II | ENG 121 | DUAL CREDIT | 01149A000**1/2 Credit Grades 11, 12 Prerequisite: Must have a cumulative GPA of at least 3.0****Dual Credit Course 3 Lake Land Credits Additional Fee**

Prerequisite: Complete ENG-120 with a minimum grade of "C". Students will learn how to find, use, assess and document research sources, producing an extended writing project based primarily on library research. *Students will be required to test into this course to gain college credits. Juniors may take this course as an "elective." English III or IIIH will still be required*

ADVANCED LITERATURE | DUAL CREDIT | 01053A000**1 Credit Grade 12 Weighted Course****Prerequisite: Students must have a B- or above in English IIIH (or Teacher Recommendation) AND a cumulative GPA of 3.0****Dual Credit Course 3 credits Additional Fee**

This senior advanced literature course is designed to be the equivalent of a college level English course. Students will read, examine, and discuss a variety of literary works from different genres as a way to analyze and understand the value, purpose, and components of literature. 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. *Students will be required to test into this course to gain college credits.*

INTRODUCTION TO SPEECH COMMUNICATION (COM-111) | 01151A000**ONLINE FORMAT | AT SHELBYVILLE HIGH SCHOOL | COST: \$150 | Grade 11/12 | 1/2 Credit**

This course focuses on the fundamental principles and methods of selecting, analyzing, organizing, developing and communicating information, evidence and points of view to audience. A qualified teacher in the building will facilitate the in-person atmosphere, while the dual credit content is delivered in an online format by a LLC instructor.

ENGLISH IV | WRITING FOR INDUSTRY - ENG-050 | 01105A000**3 credit hour course | Dual Credit | Grade: 12 | 1 Credit**

Description: Students will learn strategies for writing essays, instructions manuals, proposals, reports, career documents as well as deliver oral presentations to prepare them for a profession in the industry. Students will practice research strategies by using library resources and the internet. FOR: Senior Level ELA students.

SPANISH

SPANISH COURSES ARE TO BE TAKEN SEQUENTIALLY BASED UPON PREREQUISTES

SPANISH I- 24052A000

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- 24053A000

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- 24054A000

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- 24055A000

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 Basic scientific calculator required****Prerequisite: Successful completion of Geometry, Geometry Concepts, or consent of Math Instructor**

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 | DUAL CREDIT**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 6 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 | DUAL CREDIT**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 | DUAL CREDIT**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 + E Book**

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 | DUAL CREDIT**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.*

TRANSITIONAL MATH | QUANTITATIVE LITERACY AND STATISTICS

1/2 Credit Grade 12 Required: TI-84 Plus Graphing Calculator

Math course framework designed to prepare and transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. The competencies within each domain should include but are not limited to: numeracy (operation sense, estimation, measurement, quantitative reasoning, basic statistics, and mathematical summaries), application based algebraic topics, and functions and modeling. Upon completion students should be able to: demonstrate proficiency and understanding in basic numeracy competencies in whole numbers, integers, fractions, and decimals, use estimation and explain/justify estimates, apply quantitative reasoning to solve problems involving quantities or rates, use mathematical summaries of data such as mean, median, and mode, use and apply algebraic reasoning as one of multiple problem-solving tools, and use functions and modeling processes. Course to be delivered through authentic application, problem-based instruction designed to build mathematical conceptual understanding and critical thinking skills.

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 5

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

Sequence 2

9th Algebra I
10th Geometry
11th Algebra II

Sequence 6

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

Sequence 3

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

*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.

Sequence 4

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

(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

PRE PHYSICS - 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- 03001A000

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.

PRE CHEMISTRY- 03149A000

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

Pre-Chemistry is a one semester course to introduce students to the building blocks of matter and how they interact. Students will be challenged to become problem solvers and critical thinkers. Topics included are atomic theory, periodic law, chemical bonding, chemical reactions, gas laws, and nuclear chemistry.

ZOOLOGY- 03061A000

**1/2 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.*

PHYSICS- 03151A000

1 Credit Grades 11, 12 Weighted Course Counts as four-year college lab science
Prerequisite: "B" or better in two years of high school math (1 year must be Algebra I)

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- 03003A000 | DUAL CREDIT

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.

ADVANCED CHEMISTRY – 03102A000

1 Credit Grade: 11, 12 Weighted Course PREREQUISITES: Successful completion of Chemistry with a grade of "B-" or above during both semesters; or with instructor approval

The Advanced Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students in this course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. It requires dedication, hard work, increased study time and interest in chemistry from its students. Advanced problem-solving skills and laboratory skills are emphasized.

ANATOMY AND PHYSIOLOGY – 03053A000

1 Credit Grades 11, 12 Prerequisite: "B" average in Biology Four-year college lab science
IN PARTNERSHIP WITH HSHS GOOD SHEPHERD HOSPITAL | HEALTHCARE BOOTCAMP EXPERIENCE

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.).

ADVANCED BIOLOGY | 03052A000

1 Credit Grades 11/12 Prerequisite: Successful completion of Biology Four-year college lab science

This course will develop laboratory, critical thinking, reasoning and communication skills as students explore biotechnology, genetics, forensic science and bioethics. Students will explore and evaluate career opportunities in the fields of bio manufacturing, pharmaceuticals, plant and animal sciences, medical sciences, environmental, and engineering. Topics that will be covered include: complex inheritance, GMO, DNA testing/fingerprinting, genetic advancements, CRISPR Technology, PCR, etc.

SOCIAL STUDIES

CIVICS- 04161A000

1/2 Credit Grades 11, 12 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.

GEOGRAPHY- 04001A000

1/2 Credit Grades 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 Grades 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- 04258A000

1/2 Credit Grade 12 No prerequisites

Sociology is a study of human behavior in both past cultures and present. The course will examine what is considered acceptable behavior in various societies. We tend to study the present cultures more than ancient societies.

U.S. HISTORY- 04101A000 | MEETS THE ISBE WRITING INTENSIVE REQUIREMENT

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 Instructor Consent

Weighted Course

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 - 05111A000

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

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.*

HIGH SCHOOL BAND- 05101A000

1 Credit Grades 9, 10, 11, 12 Prerequisite: Completion of M\$ 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- PRINTMAKING - 05161A000

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

Dive into the world of printmaking with this dynamic high school course that explores both traditional and contemporary techniques. Students will learn the fundamentals of various printmaking methods, including linocut, woodcut, etching, and screen printing. The course emphasizes the creative process, allowing students to experiment with different materials and methods to produce unique, original prints. Prerequisites: none, *Drawing and/or 2D Design Recommended.

CREATIVE ART - PHOTOGRAPHY - 05167A000

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

Step into the captivating world of photography with this engaging high school course designed to develop both technical skills and creative vision. Students will explore the fundamentals of digital photography, including camera operation, composition, lighting, and editing. Through a series of hands-on projects and assignments, learners will gain practical experience in capturing compelling images and telling stories through photographs. Prerequisites: none, *2D Design and/or Drawing Recommended.

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. ****It is recommended that you take Drawing before this class.***

UNDERSTANDING ART - 05151A000 | DUAL CREDIT

1 Credit **Grades 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 pain, 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.

ART HISTORY | ART 260 | DUAL CREDIT | 05152A000

1 Credit **Grades 11, 12** **Prerequisite: Approval of Art Instructor**
Dual Credit Course **3 Lake Land credit hours** **Additional Fee**

The primary focus of this course will involve an understanding of the historical developments of the visual arts (painting, sculpture, architecture) from Prehistory through the Gothic period. Works of art will be examined as expressions of ideas, beliefs and practices of artists, cultures and societies. The relationship between the style, symbolism and function of art; the political, religious and philosophical ideas supporting them; and the ideals of the culture that produced them will also be explored.

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.***

INDUSTRIAL TECHNOLOGY

BEGINNING CONSTRUCTION | 17001A001

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

The Beginning Construction course exposes students to the opportunities available in construction related trades, such as carpentry, masonry, architecture, HVAC, plumbing, welding, small engines, masonry, and so on. Students learn about the processes involved in construction projects and may engage in a variety of small projects. This course emphasizes work responsibilities, qualifications, work environment, rewards, and career paths within construction-related fields. OSHA certification may be available.

CARPENTRY & WOOD PRODUCTION | 17003A001

1/2 Credit GRADE: 9/10/11/12 CTE Course

Woodworking courses introduce students to the various kinds of woods used in industry and offer experience in using selected woodworking tools. Students design and construct one or more projects and may prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials. Advanced students typically design a project, prepare bills of materials, construct, and finish proposed projects.

INTRODUCTION TO WELDING- 13207A003

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 | DUAL CREDIT

**1/2 Credit Grades 11, 12 Prerequisite: Successful completion of Introduction to Welding
Dual Credit Course 2.5 Lake Land credit hours Additional Fee CTE Course**

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.

ADVANCED WELDING TECHNIQUES- 13207A002

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

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.

BUSINESS & TECHNOLOGY

INTRODUCTION TO BUSINESS- 12051A002

1/2 Credit Grades 9, 10, 11, 12 No prerequisites CTE Course
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- 10004A001

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

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.

INTRODUCTION TO GRAPHIC DESIGN – 10003A001

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).

ADVANCED PROGRAMMING: PYTHON – 10152A002

1/2 Credit Grades 9, 10, 11, 12 Prerequisites: 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).

ADVANCED PROGRAMMING: OBJECT ORIENTED (JAVA) | 10155A001

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

In this rigorous, project-based curriculum, students deep-dive into programming concepts while collaborating to solve a series of socially relevant challenges. Each unit introduces a unique, real-world problem. This curriculum immerses students in Java programming topics (e.g. abstraction, algorithms, data structures, object-oriented programming) and prepares students for advanced college coursework and potential career pathways in computer science.

ROBOTICS- 10012A001

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. Edison and EV3 robots will be used during the instructional time. In partnership with the Lumpkin Foundation, students may have the opportunity to participate in competitive robotics.

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 CTE Course Prerequisite: Successful completion of 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 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.

WEB DESIGN – 10201A001**1/2 Credit Grades 9, 10, 11, 12 CTE Course**

In today's world, web pages are the most common medium for sharing ideas and information. Learning to design websites is an incredibly useful skill for any career path. The CodeHS Web Design course is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will create their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi-page websites. The course is designed for complete beginners with no previous background in computer science. The course is highly visual, dynamic, and interactive.

MEDIA I/YEARBOOK- 10201A001**1 Credit Grades 11, 12 CTE Course****Prerequisites: Previous success in business courses. Selection is 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/YEARBOOK EDITOR- 10201A002**1 Credit Grade 12 Prerequisites: Media I and Instructor Consent CTE Course**

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- 18001A001

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

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 CTE Course

Prerequisite: Must have a cumulative GPA of at least 3.0 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- 18051A003 | DUAL CREDIT

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- 18051A001

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 enterprise.

NATURAL RESOURCES CONSERVATION MANAGEMENT- 18504A002

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 A 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 LEADERSHIP- 18203A003**1 Credit Grades 10, 11, 12 Prerequisites: Consent of Ag Instructor CTE Course**

The Agricultural Leadership course will help students develop leadership skills with a focus on opportunities in the food, fiber, and natural resources industries. Topics may include but are not limited to human relationships and effective communication, decision-making and problem-solving, leadership qualities and styles, and ensuring successful completion of group activities. Students will learn to plan, prepare, and teach agriculturally based lessons to middle school students on a regular basis. They will also display their leadership abilities through a variety of agriculturally based projects and career exploration. Enrollment will be limited to 2 students per period. 1st and 5th hours will likely not be an option for the course due to the scheduling conflicts at Moulton Middle School.

SUPERVISED OCCUPATIONAL EXPERIENCE I – 18548A001**NO Credit Grades 10, 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.*

GREENHOUSE MANAGEMENT & PRODUCTION | DUAL CREDIT | HRT 076 | 18053A001**1 Credit Grade: 11/12 Prerequisite: Basic Hort. Or Consent from the Teacher CTE**

A study of the commercial production of floricultural crops, including greenhouse construction, management and operation. Attention will be given to the production of better plants through the study of temperature, light, soil, nutrition, scheduling, propagation methods, and plant breeding. **Offered every other year.**

FAMILY & CONSUMER SCIENCES**NUTRITION AND CULINARY ARTS I- 16054A001****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- 16054A002

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

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- 19052A001

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

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- 19262A001

1/2 Credit Grades 10, 11, 12 Preference: juniors and seniors Consumer Education Credit CTE

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.

INTRODUCTION TO EDUCATION- 19198A003

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

This course is designed to provide students interested in a career in K-12 education or child care operation 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. Units on curriculum development, guidance and discipline, health and safety, rules and regulations of childhood programs, and careers will be taught. This course is strongly recommended for students planning a career in education and/or child care.

HUMAN GROWTH & DEVELOPMENT- 19053A001 | DUAL CREDIT

1/2 Credit Grades 11, 12 Dual Credit Course CTE Course No Prerequisites

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.

CLOTHING AND TEXTILES- 19201A001

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

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.

CLOTHING & TEXTILES II | 19203A001**1/2 Credit 9/10/11/12 Prerequisite: Completion of Clothing & Textiles I CTE Course**

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

PARENTING- 19259A001**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.

DRIVER'S EDUCATION**DRIVER'S EDUCATION- 08152A000****1/4 Credit Scheduled by age****Prerequisites: Each student must be enrolled in high school and receive a passing grade in at least eight courses during the previous two semesters prior to enrolling in a driver education course.**

Driver's education is used to give our students the basic knowledge of the laws and physical / 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.

ISBE COLLEGE & CAREER READY INDICATORS

Academic Indicators	
ELA	MATH
ELA Advanced Placement (AP) Exam (Score of 3 or Higher)	Math AP Exam (Score of 3 or Higher)
ELA AP Course (Grade of A, B, or C)	Math AP Course (Grade of A, B, or C)
Dual Credit English Course (Grade of A, B, or C)	Dual Credit Math Course (Grade of A, B, or C)
International Baccalaureate (IB) ELA Course (Grade of A, B, or C)	IB Math Course (Grade of A, B, or C)
IB Exam (Score of 4 or Higher)	IB Exam (Score of 4 or Higher)
Transitional English (Grade of A, B, or C)	Transitional Math (Grade of A, B, or C)
	Algebra II (Grade of A, B, or C)
Minimum ACT Subject Scores of English: 18 and Reading: 22	Minimum ACT Subject Score of Math: 22 and Math Course in Senior Year
Minimum SAT Subject Score of Evidence-Based Reading and Writing: 540	Minimum SAT Subject Score of Math: 540 and Math Course in Senior Year

Career Ready Indicators
<ul style="list-style-type: none"> • Career Development Experience during high school career • Industry Credential at any point in time before graduation • Military Service or an ASVAB Score of 31 or Higher during high school career • Dual Credit Career Pathway Course (College Credit Earned) • Completion of Program of Study before graduation • Attaining and Maintaining Consistent Employment for a Minimum of 12 Months during high school • Consecutive Summer Employment during high school career • 25 Hours of Community Service during high school career • Two or More Organized Co-Curricular Activities during high school career

Distinguished Scholar

1. Cumulative GPA: 3.75 or based on the 4.0 scale
2. 95% attendance junior and senior year (average of the two years must be 95% or better)
3. ACT Composite Score: 30 or SAT Composite Score: 1400
4. At least one academic indicator in each English language arts (ELA) **and** mathematics during or before high school junior or senior year unless otherwise specified
5. Three career ready indicators during or before high school junior or senior year unless otherwise specified

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.

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.

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.

Natural/Physical Science

Anatomy & Physiology	1 cr.
Biology	1 cr.
Advanced Biology	1 cr.
Zoology	1 cr.
Chemistry	1 cr.
Advanced Chemistry	1 cr.
Pre Physics	½ 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.
Pre Chemistry	½ cr.
Animal Science / Vet Tech	1 cr.

Additional Core Courses

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

Extracurricular Activities

Game Club	Mathletes	Special Olympics	Ukulele Club
Band	Choir Club	Key Club	National Honor Society
FCS	Football	Basketball	Baseball
Softball	Wrestling	Track	Cross Country
Tennis	Golf	Swimming	Student Council
Fall Play	Spring Musical	PALS (Best Buddies Program)	Bass Fishing
Cheerleading	Scholastic Bowl	F.F.A	Book Club
Eco Team	Art Club	Culinary Club	Future Teacher Club
Outdoor Recreation	Drama Club	Army Corps Youth Ambassador	Spanish Club