

Windsor High School
Course Catalog
and
Graduation Requirements

Table of Contents

Introduction	4
General Graduation Requirements	5
College-Bound Graduation Recommendations	6
College and Career Readiness Indicator	7
Designated Scholar.....	10
English	11
Mathematics	13
Life & Physical Sciences	15
Social Sciences and History	17
Fine and Performing Arts	19
Foreign Language.....	21
Physical, Health, & Safety Education	22

Table of Contents

Business and Marketing.....	24
Health Care Sciences.....	26
Hospitality and Tourism	27
Architecture and Construction	28
Agriculture and Natural Resources	29
Transportation, Distribution, and Logistics.....	31
Engineering and Technology	32
Miscellaneous	33
List of Classes by Department	35
List of Dual Credit & Dual Enrollment Classes	37
CTE Courses	38
Lake Land Series Courses	39
NCAA Requirements	41

Introduction

In this document, you will find information regarding the classes offered at Windsor High School, including classes that are offered as Dual Enrollment with Lake Land College. Not all classes are offered every year.

Also listed are the graduation requirements, recommended courses for students planning on receiving a Bachelor's Degree, and recommended courses for students planning on receiving a certificate in a career field.

Each course will list the name, number of credits, grade levels taught, State course code number, pre-requisites, and a general description of the course. Courses that have additional requirements (course fees, dual credit/enrollment, application) have those listed as well.

To take a dual credit or enrollment course, students must meet the following Requirements:

- Must have a high school & Lake Land GPA of 2.0 (C-average) AND
- Junior or Senior standing OR at least 16 years of age at the beginning of class OR tested as gifted/talented AND
- Must fill out the Lake Land Intent to Enroll form (done with Mrs. Fogarty)

General Graduation Requirements

Academic Requirements

Total of 24 credits with the following breakdown:

Credits	Subject (Required Classes)
4	English
3	Mathematics
3	Science (Biology 1, General Science)
3.5	Social Science (Illinois History, ethnic Diversity, World History, US History, Civics)
1	Fine Arts or Foreign Language
0.5	Health
0.5	Resource Management (May take proficiency test for no course credits earned)
1	Computer Applications
2	Physical Education (Unless waived out)
5	Additional Credits

Additional Requirements

- Pass Illinois and United States Constitution Tests
- Participate in State SAT testing
- Complete the FAFSA application
- Complete 30 hours of community service

College-Bound Graduation Recommendations

Academic Requirements

Total of 24 credits with the following breakdown:

Credits	Subject (Required Classes)
4	English
4	Mathematics (Transitional or Calculus during Senior year)
3	Science (Biology 1, General Science)
3.5	Social Science (Illinois History, ethnic Diversity, World History, US History, Civics)
2	Fine Arts or Foreign Language
0.5	Health
0.5	Resource Management (May take proficiency test for no course credits earned)
1	Computer Applications
2	Physical Education (Unless waived out)
3.5	Additional Credits

Additional Requirements

- Pass Illinois and United States Constitution Tests
- Recommended exam scores (contact Mrs. Fogarty for college-specific testing requirements): SAT– 960 or better, ACT– 18 or better
- Complete the FAFSA application
- Complete 30 hours of community service
- GPA of 2.5 or better

College and Career Readiness Indicator

The College and Career Readiness Indicator (CCRI) is a designation given by the State of Illinois to indicate that the student has met the requirements needed to be successful in the college or career of their choice. Below are the requirements needed to meet this designation.

1. GPA: 2.8
2. 95% attendance during junior AND senior year
 - *That's only 9 days missed a year including doctor's appointments, college visits, and other excused absences
3. All of the following
 - *During junior OR senior year, receive one academic indicator in EACH of ELA and math (Algebra II at any time)
 - *Identify a career area of interest by the end of sophomore year
 - *Three career readiness indicators during junior OR senior year (see next page for detailed explanation)

ELA Indicators	Math Indicators	Career Readiness Indicators
Dual Credit English course with a grade of a C or higher	Dual Credit Math with a grade of a C or higher	Career Development Experience
Minimum ACT scores of an 18 in English and a 22 in Reading	Transitional Math with a grade of a C or higher	Industry Credential
Minimum SAT score of a 540 in Evidence-Based Reading and Writing	Algebra II with a grade of a C or higher	Military Service or an ASVAB score of a 31 or higher
	Minimum ACT score of a 22 in Math and a Math course senior year	Dual Credit Career Pathway course
	Minimum SAT score of a 540 in Math and a math course senior year	Completion of Program of Study
		Attaining and maintaining consistent employment for a minimum of 12 months
		Consecutive summer employment
		25 hours of community service
		Two or more organized co-curricular activities

College and Career Readiness Indicator

Career Development Experience

A supervised work experience that relates to a student's career area of interest that must:

- Occur in a workplace or other authentic working conditions (places where someone in that field would actually be)
- The experience is co-developed by an education provider
- Provides compensation or education credit to the student
- Reinforces foundational professional skills needed to succeed in the student's career area of interest
- Includes a professional skills assessment
- Takes place for a minimum of 60 total hours

This can include internships, supervised agricultural experience, work-based learning, Co-op, research apprenticeship, remote work for a client or framework, CEO program, a career-related school project, a student-created project, or youth apprenticeship.

Industry Credential

A work-related credential, certification, or license that:

- Verifies a student's qualifications or competence in a specific skillset related to an industry or occupation
- Is issued by an industry-related organization or state licensing body with the relevant authority to issue such credentials
- Is broadly sought or accepted by employers and a recognized, preferred, or required credential for employment

Ex. CAN License

Military Service or ASVAB Score

All WHS juniors take the ASVAB test during the fall. Students must receive a 31 or higher to receive this indicator OR they may participate in the following:

Split training enlistment—Enlistment at age 17 as a junior with permission from a parent or guardian, attendance at Basic Training before Senior Year, training one weekend per month through Senior year with a local unit, and planned attendance at Advanced Individual Training after Senior year.

College and Career Readiness Indicator

Dual Credit Career Pathway Course

A college course taken by a high school student both at the college and high school level. Courses that are dual credit are marked as such throughout this Course Catalog. There is also a list of dual credit and dual enrollment classes at the end of this document.

Completion of Program of Study

Completion of coursework necessary to qualify a student as a CTE Concentrator. A CTE Concentrator is a student whom:

- A. Takes at least two courses in a single career and technical education program or program of study AND
- B. Earns at least 12 credits within a career and technical education program or program of study OR completes a program if the program encompasses fewer than 12 credits or the equivalent in total.

Attaining and Maintaining Consistent Employment for a Minimum of 12 Months

Verified employment of a continuous nature for a 12-month period. Please get a verification sheet from Mrs. Fogarty to have your employer sign.

Consecutive Summer Employment

Verified employment for two consecutive summers (semester prior to junior year and semester prior to senior year). Please get a verification sheet from Mrs. Fogarty to have your employer sign.

25 Hours of Community Service

WHS requires above the state minimum of 25 hours of community service. All students who complete junior and senior year at Windsor fulfil this requirement. Service hours should address a social issue in the Windsor community or surrounding area. Examples of social issues that can be addressed are poverty, disaster relief, education, the environment, homelessness, or community wellness.

Two or More Co-Curricular Activities

Activities, programs, and applied learning experiences that are connected to or mirror the academic curriculum, but for which students do not receive academic credit AND take place outside of school or after regular schools hours. These may be operated by outside organizations. Activities should instill essential employability skills including personal ethic, work ethic, teamwork, communication, and adaptability. Only ONE sport may count toward this requirement.

College and Career Readiness Indicator

The Distinguished scholar designation is a designation given by the State of Illinois to indicate that the student has met the requirements needed to stand out as a top Illinois scholar. Below are the requirements needed to meet this designation.

1. GPA of a 3.75/4.0
2. ACT composite score of 30 or SAT composite score of 1400
3. During junior or senior year, at least one academic indicator in each ELA and Mathematics (or Algebra II at any time)
4. Three career readiness indicators during junior or senior year
5. 95% attendance junior AND senior year

ELA Indicators	Math Indicators	Career Readiness Indicators
Dual Credit English course with a grade of a C or higher	Dual Credit Math with a grade of a C or higher	Career Development Experience
Minimum ACT scores of an 18 in English and a 22 in Reading	Transitional Math with a grade of a C or higher	Industry Credential
Minimum SAT score of a 540 in Evidence-Based Reading and Writing	Algebra II with a grade of a C or higher	Military Service or an ASVAB score of a 31 or higher
	Minimum ACT score of a 22 in Math and a Math course senior year	Dual Credit Career Pathway course
	Minimum SAT score of a 540 in Math and a math course senior year	Completion of Program of Study
		Attaining and maintaining consistent employment for a minimum of 12 months
		Consecutive summer employment
		25 hours of community service
		Two or more organized co-curricular activities

English

<p>ENGLISH I 1 Credit Required for Graduation Grades 9-12 State Course Number: 01001A000</p>	<p>A first year course of high school English includes several varied literature units, and is writing intensive. A high level of expectation exists in the areas of grammar, spelling, and listening, as basic skills are stressed to improve writing. Vocabulary related to the literature units is studied. PREREQUISITE: None</p>
<p>ENGLISH II 1 Credit Required for Graduation Grades 10-12 State Course Number: 01002A000</p>	<p>A second year course of English continues and intensifies the study of literature, grammar, composition, vocabulary, and spelling. Several new concepts in all areas are introduced. PREREQUISITE: ENGLISH I</p>
<p>ENGLISH III 1 Credit Required for Graduation Grades 11-12 State Course Number: 01003A000</p>	<p>This one-year writing intensive course continues a review of grammar, vocabulary, paragraph composition, and the writing of compositions. American literature selections are emphasized and a comparison paper is required of three American novels. PREREQUISITE: ENGLISH II</p>
<p>ENGLISH IV 1 Credit Required for Graduation Grade 12 State Course Number: 01004A000</p>	<p>This one year writing intensive course is designated to provide the college-bound student with further practice in writing, including some extended assignments like term papers, more contact with significant literary works dealing with important ideas, and whatever grammar review proved to be necessary for the students of this course. The literature study is a survey of English literature. PREREQUISITE: ENGLISH III</p>
<p>SPEECH 111 0.5 Credit Grades 11-12 State Course Number: 01151A000 <i>Dual Enrollment Class Course Fee Required</i> <u>Can fill one semester of English if student also takes Composition I</u></p>	<p>Public speaking courses enable students, through practice, to develop communication skills that can be used in a variety of speaking situations (such as small and large group discussions, delivery of lectures or speeches in front of audiences, and so on). Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence. PREREQUISITE: ENGLISH I & II</p>

English

<p>COMPOSITION I 0.5 Credit Grades 11-12 State Course Number: 01103A000 <i>Dual Enrollment Course Fee Required</i> <u>May take place of English IV in combination with either Speech or Composition II</u></p>	<p>Composition courses focus on students' writing skills and develop their ability to compose different types of papers for a range of purposes and audiences. These courses enable students to explore and practice descriptive, narrative, or expository styles as they write paragraphs, essays, letters, applications, formal documented papers, or technical reports. Although composition courses may present some opportunities for creative writing, their focus usually remains on nonfiction, scholarly, or formal writing.</p>
<p>COMPOSITION II .5 Credit Grades 11-12 State Course Number: 01105A000 <i>Dual Enrollment Course Fee Required</i> <u>May take place of English IV in combination with Composition I</u></p>	<p>Research/technical writing classes prepare students to write research papers and/or technical reports. These classes emphasize researching (primary and secondary sources), organizing (material, thoughts, and arguments), and writing in a persuasive or technical style.</p>

Mathematics

<p>ALGEBRA I 1 Credit Grades 9-12 State Course Number: 02052A000</p>	<p>Algebra I is a one year course which concerns itself with the ability to use variables in mathematics. Included in this course are the following topics: sets; simplifying and evaluating expressions; order of operations; words and symbols; opposites and absolute values; adding, subtracting, multiplying and dividing real numbers; solving equations and problems; solving inequalities and problems, graphs and functions; systems of equations in two variables; systems of inequalities; linear equations in three variables; polynomials and factoring; rational expressions; irrational numbers and radicals; and quadratic equations and functions.</p>
<p>ALGEBRA II 1 Credit Grades 9-12 State Course Number: 02056A000</p>	<p>Algebra II is a one-year course that may be viewed as a reexamination and extension of those concepts introduced in Algebra I. Included in this course are the following topics: sets of numbers: numerical axioms, linear open sentences; systems of linear open sentences, polynomials and factoring; rational expressions, relations and functions, irrational numbers and quadratic equations; quadratic relations and systems; and exponential functions and logarithms. Prerequisite: Algebra I, Geometry</p>
<p>CALCULUS 1 Credit Grade 12 State Course Number: 02121A000</p>	<p>This is a one-year course that deals with derivatives and integrals. Some additional topics included in this course are functions; limits; application of derivatives and integrals; and inverse functions. Prerequisite: Pre-Calculus or permission from the instructor</p>
<p>GEOMETRY 1 Credit Grades 9-12 State Course Number: 02072A000</p>	<p>Geometry is a one-year course designed to teach basic geometrical facts and concepts, as well as to enhance the ability of the student to think rationally. Beginning with the three undefined terms of point, line, and plane, a system of logical thought is developed. The provable theorem and its practical applications is the end result. Prerequisite: One Year of Algebra</p>
<p>TECH I MATH .5 Credit Grades 11-12 State Course Number: 02153A000 <i>Dual Credit Course Fee Required</i></p>	<p>Technical Math courses extend students' proficiency in mathematics, and often apply these skills to technical and/or industrial situations and problems. Technical Math topics may include, but are not limited to, rational numbers, systems of measurements, tolerances, numerical languages, geometry, algebra, statistics, and using tables, graphs, charts, and other data displays. Technology is integrated as appropriate.</p>

Mathematics

<p>TECH II MATH 0.5 Credit Grades 11-12 State Course Number: 02152A000 Dual Credit Course Fee Required</p>	<p>Offers the student an in-depth study of algebra, geometry, and trigonometry including factoring, solving linear systems, volumes, areas and right triangles. Prerequisite: Tech I Math</p>
<p>TRANSITIONAL MATH 0.5 Credit Grade 12 State Course Number: 02055A001 CTE Course</p>	<p>Math course framework built around essential algebraic competencies designed to prepare students for college and career pathways in areas such as: Science, Technology, Engineering, and Math (STEM) which require advanced algebraic skills or calculus. Course design will enable students to transition directly into credit bearing college-level algebra courses. Students will engage in deepening conceptual understanding using algebra and mathematical applications of algebra and functions and how functions naturally arise using authentic modeling situations. The function families (linear, polynomial, rational, radical, and exponential) will be emphasized. Additionally, the course shall emphasize the eight mathematical practices, particularly modeling within the setting of authentic and contextualized applications, and upon completion, the student should be able to: demonstrate and justify both orally and in writing conceptual understanding of functions combined with advanced algebraic knowledge to solve complex, contextualized, multi-step problems in authentic settings.</p>
<p>PRE-CALCULUS 1 Credit Grades 11-12 State Course Number: 02110A000</p>	<p>Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomials, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.</p>
<p>STATISTICS & PROBABILITY 0.5 Credit Grades 11-12 State Course Number: 02201A000</p>	<p>Probability and Statistics courses introduce the study of likely events and the analysis, interpretation, and presentation of quantitative data. Course topics generally include basic probability and statistics: discrete probability theory, odds and probabilities, probability trees, populations and samples, frequency tables, measures of central tendency, and presentation of data (including graphs). Course topics may also include normal distribution and measures of variability.</p>

Life & Physical Sciences

<p>ANATOMY & PHYSIOLOGY 1 Credit Grades 11-12 State Course Number: 03053A000</p>	<p>Usually taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structures of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.</p>
<p>BIOLOGY I 1 Credit Required for Graduation Grades 9-12 State Course Number: 03051A000</p>	<p>This course involves an introduction to the five kingdoms of living things. Some areas of study within these kingdoms are cellular structure, basic life functions, classification, and ecological relationships. Most of the emphasis is placed on the anatomy and physiology of animals and plants. The students become adept at using the microscope.</p>
<p>CHEMISTRY 1 Credit Grades 11-12 State Course Number: 03101A000</p>	<p>Chemistry is a year laboratory science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. Students study the fundamental structures of atoms, the way atoms combine to form compounds, and the interactions between matter and energy.</p>
<p>ENVIRONMENTAL SCIENCE 0.5 Credit Grades 10-12 State Course Number: 03003A000</p>	<p>This course deals with studying advanced concepts of biology. The first nine weeks are spent on various topics ranging from prairies to reptiles. The second nine weeks the cell is studied in detail, going into such things as cell energy, respiration, photosynthesis, and protein synthesis. The following semester covers the last chapters of the biology textbook going into ecological studies and environmental problems. The students may be assigned a project to complete that deals with their interest area.</p>
<p>GENERAL SCIENCE 1 Credit Required for Graduation Grades 9-12 State Course Number: 03159A000</p>	<p>This is a year course covering physical and earth science topics. Topics include: energy, resources, rocks, earthquakes, volcanoes, freshwater, plate tectonics, matter, force, chemical reactions, acids and bases, carbon compounds, polymers, the periodic table, and chemical bonds. These areas are in conjunction with the topics that are covered in junior high science.</p>

Life & Physical Sciences

<p>PHYSICS 1 Credit Grades 11-12 State Course Number: 03151A000</p>	<p>Physics is the study of the fundamental laws that determine the workings of the universe. The topics covered include: motion, force, gravity, momentum, energy, heat, waves, sound and light.</p> <p>Prerequisites: General Science, Trigonometry (already taken or in the class)</p>
<p>PHYSICS II 1 Credit State Course Number: 03152A000</p>	<p>Usually taken after a comprehensive initial study of physics, Physics—Advanced studies courses provide instruction in laws of conservation, thermodynamics, and kinetics; wave and particle phenomena; electromagnetic fields; and fluid dynamics.</p> <p>Prerequisites: Physics I</p>
<p>ZOOLOGY 1 Credit Grades 10-12 State Course Number: 03061A000</p>	<p>Zoology courses provide students with an understanding of animals, the niche they occupy in their environment or habitat, their life cycles, and their evolutionary relationships to other organisms. These courses should also help students develop an awareness and understanding of biotic communities.</p> <p>Prerequisite: Biology I</p>

Social Sciences & History

<p>CIVICS 0.5 Credit Required for Graduation Grades 11-12 State Course Number: 04161A000</p>	<p>Civics is a semester course that provides the student the opportunity to examine the basic government structures used by the various levels of government in our country and in other countries. Civics is also concerned with showing the student how to be the most effective citizen possible within our government. Such areas as local government, state government, national government, interest groups, political parties, and the election process are studied. *Passing the US Constitution is a requirement to pass this course.</p>
<p>CURRENT EVENTS 0.5 Credit Grades 11-12 State Course Number: 04064A000</p>	<p>This is a semester course which provides the students with opportunities to explore current news and events on a local, state, national, and international level. Students will use the newspaper, magazines, TV, news shows, movies, and internet exploration, analyze, and evaluate the effects of current news. Students will be involved in activities such as researching, teaching, designing various projects, and volunteer work.</p>
<p>ETHNIC & DIVERSE STUDIES 0.5 Credit Required for Graduation Grades 9-12 State Course</p>	<p>Ethnic & Diverse Studies is a semester course that studies the historical experiences of African-Americans as they interact with each other and with white Americans. By learning the basic chronology of African-American history, students will learn how to listen, to understand, to respect, and to value both our differences and similarities in American society today.</p>
<p>GEOGRAPHY 0.5 Credit Grades 10-12 State Course Number: 04001A000</p>	<p>Geography courses provide students with an overview of world geography, but may vary widely in topics they cover. Topics typically include physical environment, the political landscape, the relationship between people and the land, economic production and development, and the movement of people, goods, and ideas.</p>
<p>ILLINOIS HISTORY 0.5 Credit Required for Graduation Grades 9-12 State Course Number: 04105A000</p>	<p>This is a semester course for Freshmen. It involves the studying of the creation of our wonderful state, Illinois. The students will focus on Illinois' involvement in all of the major events of the United States History. They will also look at local history to our area. The students will use technology and books to create papers and projects for this class. * Passing the IL Constitution is a requirement to pass this course.</p>

Social Sciences & History

<p>SOCIOLOGY 1 Credit Grades 10-12 State Course Number: 04258A000</p>	<p>This is a year course that studies how people from various types of groups interact to facilitate better living. This course examines the rules and regulations these various groups create to control individual behavior within the groups and between groups. Such groups as family, religious, youth, work, criminal, and recreation groups are studied. The course presents experiences in which the student may learn more about his society and himself.</p>
<p>U.S. HISTORY 1 Credit Required for Graduation Grades 11-12 State Course Number: 04101A000</p>	<p>This one year course is a study in the forces, institutions, and events that have shaped the United States and its people. This course is strong on twentieth century influences on our history and our role in a changing world.</p>
<p>WORLD HISTORY 1 Credit Required for Graduation Grades 10-12 State Course Number: 04051A000</p>	<p>This one year course is primarily an examination of the reasons why our western civilization has developed and progressed in the fashion it has. A strong emphasis on wars and revolutions of the 17th, 18th, and 19th centuries and their impact on present civilization. This course is a good college preparatory choice.</p>

Fine and Performing Arts

<p>ART 0.5 Credit Per Semester Grades 9-12 State Course number: 05154A000</p>	<p>Students will explore various visual art forms and techniques in a general art appreciation course with emphasis placed on the elements and principles of art. Self-expression and art exploration are encouraged. Units of study may include, but are not limited to, drawing, painting, printmaking, pottery, sculpture, calligraphy, weaving, careers, and art history.</p>
<p>BAND 1 Credit Grades 9-12 State Course Number: 05102A000</p>	<p>Band consists of both junior high and high school students who rehearse daily. Band literature of all types is presented, as well as terms and concepts used in the field of music. Band members are required to perform at all varsity home basketball games, high school graduation, and the Windsor Harvest Picnic.</p>
<p>PHOTOGRAPHY 0.5 Credit Grades 10-12 State Course Number: 05167A000</p>	<p>Photography courses expose students to the materials, processes, and artistic techniques of taking artistic photographs. Students learn about the operation of a camera, composition, lighting techniques, depth of field, filters, camera angles, and film development. This course may cover black-and-white photography, color photography, or both. As students advance, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic style. These courses may also cover major photographers, art movements, and styles.</p>

Foreign Language

<p>SPANISH I 1 Credit Grades 9-12 State Course Number: 06101A000</p>	<p>This one year course is designed to teach a basic Spanish vocabulary and grammar so that the student can express simple ideas intelligibly and understand such ideas when expressed by a native speaker at a near-normal rate of speaking. In addition, the course includes an exploration of culture, food, music, and art and customs of the countries where Spanish is spoken.</p>
<p>SPANISH II 1 Credit Grades 9-12 State Course Number: 06102A000</p>	<p>This one year course is designed to increase the student's knowledge of and proficiency in the Spanish language and to expand student familiarity with the Hispanic culture</p>
<p>SPANISH III 1 Credit Grades 9-12 State Course Number: 06103A000</p>	<p>Spanish III is a one year course which is intended to review and strengthen the students' mastery of the grammar and vocabulary of the first two years of Spanish, expand considerably the vocabulary controlled by the student, familiarize them with such new grammatical concepts as the use of the subjunctive, increase his facility with both oral and written language, and enhance his knowledge of the culture of Spanish-speaking countries.</p>
<p>SPANISH IV 1 Credit Grades 9-12 State Course Number: 06104A000</p>	<p>Spanish IV is a one year course which further builds vocabulary, strengthens the students' control of Spanish grammar and syntax, increases their skill at communication through both speaking and writing Spanish grammar and syntax, increases their skill at communication through both speaking and writing Spanish, and expands their familiarity with Hispanic culture, particularly it's literature.</p>

Physical, Health, & Safety Education

<p>DRIVER EDUCATION/ HEALTH 0.5 Credit Grades 9-12 Required for Graduation Course Fee Required State Course Number: 08201A000</p>	<p>The first 9 weeks of this course will teach the student the proper attitudes and skills of driving a car safely and will consist of two phases; Classroom and Behind the Wheel. The Behind the Wheel phase is not compulsory, but no license may be obtained before the eighteenth birthday unless both phases have been successfully completed. A student must pass the Classroom phase in order to partake in the Behind the Wheel phase. Instruction Permit applications will be distributed at the completion of the Classroom phase, so long that the student passes this.</p> <p>The second 9 weeks of this class include the following topics: Tobacco, alcohol, drugs, communicable diseases, non-communicable diseases, relationships and dating violence, abstinence, contraception, pregnancy, and childbirth.</p>
<p>PHYSICAL EDUCATION 0.25 Credit per semester Required for Graduation*</p>	<p>This is a semester course that concerns itself with the education of the body through sports and game activities. The following areas will be emphasized:</p> <ul style="list-style-type: none"> • Physical Fitness and Endurance (Cardiovascular Conditioning) • Team and Individual Sports • Sportsmanship—Building Character • Lifetime Sports—Leisure and Interests • Rules, Techniques, and Strategies of Sports and Games • Social Values—Getting Along with Others • Motor Skill Development • Leadership • The Value of Stretching and Warming Up <p>Some of the units that will be covered are: softball, archery, soccer, basketball, volleyball, weight lifting, physical fitness, track and field, badminton, ping pong, scooter games, gymnastics, and a host of game activities that will be used as a change of pace.</p>

*Students who fit certain criteria may waive out of P.E. See the student handbook for more information

Computer and Information Sciences

COMPUTER CONCEPTS AND APPLICATIONS

1 Credit

Grades 10-12

State Course Number:

10004A001

CTE Course

Fulfills one computer credit

Computer Concepts and Applications is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management, presentation software, and desktop publishing. Students will explore topics related to computer concepts, operating systems, telecommunications and emerging technologies. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases.

Business and Marketing

<p>ACCOUNTING I 1 Credit Grade 11-12 State Course Number: 12104A001 CTE Course</p>	<p>This is a year class. Accounting is a skill level course that is of value to all students pursuing a strong background in business, marketing, and management. The course includes planned learning experiences that develop the initial and basic skills used in systematically computing, classifying, recording, verifying, and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making.</p>
<p>ACCOUNTING II 1 Credit Grade 11-12 State Course Number: 12104A002 CTE Course</p>	<p>Accounting II is a 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 more complicated types of business organizations: partnerships, corporations, branches, etc. The students may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting, and others. Some students may choose to do specialized accounting computer applications, and others may elect payroll clerk, data processing computer applications. Simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and statistical analysis of business data using computers for accounting business applications.</p>
<p>ADVANCED BUSINESS TECHNOLOGY 1 Credit Grade 12 State Course Number: 12001A001 CTE Course <u>FULFILLS 1 COMPUTER REQUIREMENT</u></p>	<p>This is a semester course where marketing concepts are taught, both for personal and business environments. Business Law is also studied for small business and corporations.</p>

Business and Marketing

<p>ADVANCED MARKETING 1 Credit Grades 10-12 State Course Number: 12152A001 CTE Course <u>Fulfills one computer requirement</u></p>	<p>Marketing-Comprehensive courses focus on the wide range of factors that influence the flow of goods and services from the producer to the consumer. Topics may include (but are not limited to) market research, the purchasing process, distribution systems, warehouse and inventory control, salesmanship, sales promotions, shoplifting and theft control, business management, and entrepreneurship. Human relations, computers, and economics are often covered as well.</p>
<p>BUSINESS TECHNOLOGY 0.5 Credit Grades 10-12 State Course Number: 12001A001 CTE Course <u>Fulfills one computer requirement</u></p>	<p>This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration, and production). Students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course. This course is not intended to meet the consumer education requirement, but rather to provide preparation for the skill level courses that make up the Business, Marketing, and Management occupation programs.</p>
<p>SHELBY COUNTY CEO PROGRAM 2 Credits Grades 11-12 State Course Number: 12052A001 CTE Course Dual Enrollment Application Required</p>	<p>Business Management courses acquaint students with management opportunities and effective human relations. These courses provide students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, they usually provide a macrolevel study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course may emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.</p>

Business and Marketing

PRODUCT ORIENTED
MARKETING
(YEARBOOK)

1 Credit

Grades 11-12

State Course Number:

12164A001

**Fulfills one computer
requirement**

This is a year course that focuses on the production of the school yearbook. Students will work with technology to prepare the school yearbook.

Health Care Sciences

HEALTH OCCUPATIONS

2 Credits

Grade 12

State Course Number:

14051A001

Dual Enrollment Course Fee

Required

CTE Course

This is a one year course which includes classroom laboratory, and clinical experience to give the student a basic understanding of the concepts and philosophy of health care. Basic skills common to most health occupations will be taught such as vital signs, aseptic technique, and body mechanics. The course will also provide the student with a basic orientation to professionalism and its importance in the delivery of health care. Examples of units of instruction include dentistry, nutrition, medicine, nursing, psychology, social service, science and engineering, therapists, and technical instrumentation. The student will be assisted in choosing a specific health occupations career based on realistic assessment of personal aptitudes, abilities, and interests. The students, upon successful completion of required material (including both classroom work and clinical experiences), will be eligible for recognition by the state of Illinois department of public health as having completed training for basic nurse assistant. A certificate of such recognition shall be presented.

Hospitality and Tourism

NUTRITION & WELLNESS
OCCUPATIONS
1 Credit
Grade 9-12
State Course Number:
16054A003
CTE Course

This course will concentrate on expanding student's knowledge and experiences with nutrition concepts, food science, and healthy lifestyles. Nutritional analysis, nutrient functions, food allergies, diet and disease, menu analysis, energy and wellness, meal planning & management, nutritional needs across the lifespan, impacts of science and technology on nutrition and wellness issues, and food safety and sanitation management are topics covered in this course through theory, projects, and laboratory experiences. Students will gain experience in preparing a variety of communications to teach the importance of nutrition and wellness.

Architecture and Construction

<p>BUILDING TRADES I 1 Credit Grades 11-12 State Course Number: 17002A001 CTE Course</p>	<p>This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading.</p>
<p>BUILDING TRADES II 1 Credit Grade 12 State Course Number: 17002A002 CTE Course</p>	<p>This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines and drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential chimneys and fireplaces, laying, jointing, and pointing brick and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge.</p>

Agriculture and Natural Resources

<p>AGRICULTURAL LEADERSHIP 0.5 Credit Grades 11-12 State Course Number: 18203A000</p>	<p>Agricultural Leadership courses 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. Prerequisite: Intro to Ag</p>
<p>AGRIBUSINESS MECHANICS 1 Credit Grades 11-12 State Course Number: 18449A001 CTE Course</p>	<p>This is a one-year course designed to develop student knowledge and skills in the area of agricultural mechanics. Instructional units include operating equipment safely, welding with arc welder, welding and cutting with oxygen acetylene, and maintaining and repairing small engines, as well as electricity and MIG welding. Prerequisite: Intro to Ag</p>
<p>AGRICULTURAL SCIENCE 1 Credit Grades 10-12 State Course Number: 18003A001 CTE Course <u>Fulfills one science requirement</u></p>	<p>This is a one year course with instruction on advanced plants and soil science, advanced animal science and agricultural mechanics skills necessary for maintaining and repairing equipment and/or facilities. Applied math/science skills are stressed throughout the course. Microcomputer applications are utilized as they relate to each instructional unit supply, and new directions in agriculture. Prerequisite: Intro to Ag</p>
<p>AGRICULTURAL BUSINESS MANAGEMENT 1 Credit Grades 11-12 State Course Number 18201A001 CTE Course Dual Credit Course Fee Required</p>	<p>This one year course designed to develop knowledge and skills in the following areas: using soil and other plant growing media; identifying horticultural plants; propagating horticultural plants; basics of growing horticultural plants in greenhouse and nursery settings; constructing, maintaining and using plant-growing structures; operating, repairing, and maintaining equipment used in the horticultural field. Prerequisite: Intro to Ag</p>

Agriculture and Natural Resources

<p>INTRODUCTION TO AGRICULTURE INDUSTRY 1 Credit Grades 9-11 State Course Number: 18001A001 CTE Course</p>	<p>This one year 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; as well as the scope and types of job opportunities in the agricultural field. Microcomputer applications are introduced. Leadership skills such as public speaking, parliamentary procedures, and record keeping skills are introduced. The second semester concentrates on basic concepts in animal science, plant science, soil science, horticulture, agricultural resources, agribusiness management and agricultural mechanics.</p>
<p>SUPERVISED AGRICULTURAL EXPERIENCE I 1 Credit Independent Study Grades 9-12 State Course Number: 18997A000 CTE Course</p>	<p>This course is designed to establish knowledge and skills in various agricultural careers. Students will gain credit by establishing a project at their home, at a local business, or at their school usually after normal school hours. Example projects may include, but are not limited to: working at a garden center, raising vegetables/grain/livestock, conducting agri-science experiments in a greenhouse, and training horses at a stable. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA. Prerequisite: Intro to Ag</p>
<p>SUPERVISED AGRICULTURAL EXPERIENCE II 1 Credit Independent Study Grades 9-12 State Course Number: 18997A000 CTE Course</p>	<p>This course is designed to improve and expand knowledge and skills in various agricultural careers. Students will gain credit by continuing a project at their home, at a local business, or at their school, usually after normal school hours. Students are encouraged to add additional projects, experiences, scope, and growth involving managerial and decision making skills. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. Instructor supervision will be conducted to the student's home or place of employment. SAE records should be evaluated at least once per month. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to fulltime employment, scholarships, and awards through the FFA. Prerequisite: Intro to Ag, SAE I</p>

Transportation, Distribution, and Logistics

<p>AUTOMOTIVE I 1 Credit Grade 11-12 State Course Number: 20104A001 CTE Course Dual Enrollment Course Fee Required</p>	<p>This is a semester course that studies brakes and engine performance. This class is a study of the hydraulic principles of drum, disc, and abs break systems. Diagnosis and repair of power assisted, drum, disc, and antilock brake systems will be discussed. The class will also study engine design, diagnosis, removal, cylinder head and valve train repair. Short block repair, lubricating systems, cooling systems will be discussed and hand on assembly of the engine.</p> <p>* Automotive I and Automotive II courses are taken together over a one year period.</p>
<p>AUTOMOTIVE II 1 Credit Grade 11-12 State Course Number: 20104A002 CTE Course Dual Enrollment Course Fee Required</p>	<p>This is a semester course. This course is a continuation of and builds on the skills and concepts introduced in Automotive Technician I. This course includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating and air conditioning, transmissions, testing and diagnostics, drive train and overall automobile performance.</p> <p>* Automotive I and Automotive II courses are taken together over a one year period.</p>

Engineering and Technology

<p>CAD I 1 Credit Grades 11-12 State Course Number: 21107A000 CTE Course</p>	<p>Drafting—General courses, usually offered as a sequence of courses, introduce students to the technical craft of drawing illustrations to represent and/or analyze design specifications and then refine the skills necessary for this craft. General courses use exercises from a variety of applications to provide students with the knowledge and experience to develop the ability to perform freehand sketching, lettering, geometric construction, and multi-view projections and to produce various types of drawings (working, detail, assembly, schematic, perspective, and so on). Computer-aided drafting (CAD) systems (if available) are typically introduced and used to fulfill course objectives.</p>
<p>CAD II 1 Credit Grades 11-12 State Course Number: 21108A000 CTE Course</p>	<p>This course continues the learning of the basic fundamentals, principles, and practices involved in producing and reading of industrial blueprints from the beginning to the advanced levels as started in Drafting/CAD I. It emphasizes the developing of presentation techniques with the help of AutoCAD, Revit, and Inventor. Further studies of building designs and codes will be implemented to increase the student's knowledge in the construction of working drawings and the reading of architectural blueprints. In addition, students will develop a complete set of house plans with a material list and a house model as well as multiple functional 3D models that will be created by a 3D printer.</p>

Miscellaneous

<p>ADULT LIVING 1 Credit Grades 9-12 State Course Number: 22206A000</p>	<p>Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize such topics as goal-setting, decision-making, and setting priorities; money and time management; relationships; and the development of the self. Practical exercises regarding selecting and furnishing houses, meeting transportation needs, preparing food, selecting clothing, and building a wardrobe are often integral to these classes. In addition, specific topics such as insurance, taxation, and consumer protection may also be covered.</p>
<p>COOP 1 Credit Grades 9-12 State Course Number: 22153A001 CTE Course</p>	<p>Cooperative Education is a capstone course designed to assist students in the development of effective skills and attitudes through practical, advanced instruction in school and on the job through cooperative education. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students' abilities to interact positively with others. For skills related to the job, refer to the skill development course sequences, the task list or related occupational skills standards of the desired occupational program. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. A qualified career and technical education coordinator is responsible for supervision. Written training agreements and individual student training plans are developed and agreed upon by the employer, student, and coordinator. The coordinator, student, and employer assume compliance with federal, state, and local laws and regulations.</p>
<p>FAMILY CONSUMER SCIENCE 1 Credit Grades 9-12 State Course Number: 22201A001</p>	<p>This course introduces students to the field of family and consumer sciences and the many career opportunities available in this broad field. The course includes theory and laboratory experiences in the following content areas: Nutrition and culinary arts; textiles and design; family, career, and community leadership development; resource management; human development and life-long learning; facility design, care, and management; and interpersonal relationships and life management skills.</p>

Business and Marketing

RESOURCE MANAGEMENT
0.5 Credit
Required for Graduation
Grade 12
State Course Number:
22210A001

This semester course is a senior level course and teaches the student how to plan and use a budget or money management plan. Areas studied are useful to the consumer such as money, budgeting, and use of all available assets. Also included is information useful to know when buying home furnishings, insurance, automobiles, food, clothing, housing, etc.

Requirement for this course may be met by passing the consumer education test (for 9 credit). This course is a state board of education requirement.

List of Classes by Department

Business/	Agriculture	English	Math	PE/Dr Ed/ Health	Science
Computer Concepts &	Ag Science	English I	Algebra I	PE	Bio I
Advanced Marketing	Horticulture	English II	Geometry	Driver Ed	General Science
Accounting I	Ag Mechanics	English III	Algebra II	Health	Anatomy & Physiology
Accounting II	Intro to Ag	English IV	Statistics		Zoology
Product Marketing	Ag Business	Speech 111	Pre-Calculus		Chemistry
	SAE I (Record		Calculus		Physics
	SAE II (Record Book)		Transitional Math		Physics II
			Tech Math I		
			Tech Math II		

List of Classes by Department

Fine Arts	Family Consumer	Foreign Language	Architecture & Construction	Social Studies	Off-Campus Classes
Band	Nutrition &	Spanish I	Building Trades	Civics	Automotive I
Art		Spanish II	Computer Aided	Illinois History	Automotive II
Photography		Spanish III	Computer Aided	Ethnic Diversity	Draft & Design
		Spanish IV		Sociology	Health Occ
				World History	Shelby County CEO
				US History	
				Geography	
				Resource	

Dual Credit/Dual Enrollment Classes

Dual Credit Classes	Credits	19-20 Course Fees	Dual Enrollment Classes
Ag Business	5	\$92.10	Automotive Technology I*
Shelby County CEO	8	\$0.00	Automotive Technology II*
Tech Math I	2	\$36.84	Health Occupations*
Tech Math II	2	\$36.84	Information Technology*
			Composition I
			Composition II
			Speech 111

Listed above are the course fees for our current dual credit classes. Fees are determined by Lake Land College and are subject to change at any time before registration

Above are the dual enrollment classes for the current school year. Course fees are determined by Lake Land College. For Speech 111 and Composition I & II, the course fee is \$200.

*Dual Enrollment classes taken at Lake Land College have a \$500 course fee. The course fee is due before the semester and you will not receive your books until the fee

List of CTE Classes

Transitional Math
Computer Concepts & Applications
Advanced Business Technology
Accounting I
Accounting II
Advanced Marketing
Information Technology
Shelby County CEO
Health Occupations
Nutrition & Foods
Building Trades I
Building Trades II
Computer Aided Drafting I
Computer Aided Drafting II
Ag Mechanics
Ag Science
Ag Business
Intro to Ag
SAE I
SAE II
Automotive I
Automotive II
Coop

Automotive Class Series

Fall Semester Dual Enrollment 6 College Credits (2 High School Credits)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7:00 AM- 8:50 AM	AUT-051 Electrical Systems I	AUT-048 Intro to Auto	AUT-051 Electrical Sys- tems I	AUT-048 Intro to Auto	AUT-051 Electrical Sys- tems I

Fall Semester Dual Enrollment 6.5 College Credits (2 High School Credits)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7:00 AM- 8:50 AM	AUT-053 Brake Systems	WEL-057 Welding Fundamentals	AUT-053 Brake Systems	WEL-057 Welding Fundamentals	AUT-053 Brake Systems

Expendable supplies needed:

Welding and Auto:

Gloves—\$10 (can be purchased from the Automotive Program)

Basic welding visors—provided

Safety Glasses—\$5

Tools: Will be provided

Workbooks (based on 2017-2018 rates):

AUT-048 Intro to Auto—\$16.15

AUT-051 Electrical 1—\$53.55

AUT-053 Brake Systems—\$53.55

Uniforms: Recommended, but not required. (Can be purchased for approximately \$65-70 for three shirts through the Automotive Program)

Draft & Design Class Series

Fall Semester Dual Enrollment 7 College Credits (2 High School Credits)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7:00 AM–	MTT-050	MTT-050	MTT-050	MTT-050	MTT-050
7:50 AM	Intro to Machining Procedures	Intro to Machining Procedures	Intro to Machining Procedures	Intro to Machining Procedures	Intro to Machining Procedures
8:00 AM–	TEC-045	CIM-044	TEC-045	CIM-044	TEC-045
8:50 AM	Intro to Drafting	Industrial Robotics	Intro to Drafting	Industrial Robotics	Intro to Drafting

Fall Semester Dual Enrollment 7 College Credits (2 High School Credits)

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
7:00 AM–	CIM-060	CIM-060	CIM-060	CIM-060	CIM-060
7:50 AM	CNC Machining	CNC Machining	CNC Machining	CNC Machining	CNC Machining
8:00 AM–	CAD-056	CAD-062	CAD-056	CAD-062	CAD-056
8:50 AM	Computer Aided Drafting I	Intro to Solid Works	Computer Aided Drafting I	Intro to Solid Works	Computer Aided Drafting I

Expendable supplies needed:

MTT-050:

Measuring Kit—\$40

TEC-045:

Drafting Kit—\$40

Other tools will be provided

NCAA Eligibility

Thinking of playing sports in college? Start planning now! Take the right courses and earn the best grades possible. Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist.

Sign up for a free Profile Page at eligibilitycenter.org for information on NCAA requirements.