



# **CHS COURSE CATALOG 2019-2020**

### **Course Selection**

Throughout High School students receive considerable attention from the counselor who meets numerous times with students, both in individual conferences and group sessions to help with their goals identification and course selection. Teachers also provide additional information and advice about the choices that students may consider in their course selection.

The final responsibility for course selection, however, rests entirely with the student (with parental consent). The student selects elective courses and should keep count of credits earned toward graduation. After the courses have been selected, the student's parent or guardian must approve the official course request form. A course request does not mean a course is guaranteed. Courses may be changed for various reasons; for this reason, alternative course choices are strongly recommended. Priority will be given based on need for credits to complete graduation for seniors and the order in which pre-registration forms were received. Scheduling conflicts or class sizes may determine final schedules.

### **Schedule Changes**

- A. Course changes requested after final registration must be limited since classes are formed, schedules created and staff hired and assigned on the basis of the students' pre-registration. When class schedule changes are necessary, the change must be made by the 4<sup>th</sup> day of the semester.
- B. Mid-year adjustments must be completed **one week before the new semester starts** and are absolutely limited to necessary changes: 1) failure in full year courses or Prerequisites; 2) graduation requirements; 3) balancing class sizes; 4) deemed necessary by administration.
- C. Withdrawal from a course:
  - 1. This is only done the first four days of the semester, which allows a student to drop an elective class and for another. Each student is allowed only one study hall period a day.
  - 2. The student must have a parent sign the schedule change form.
  - 3. Beginning with the 5<sup>th</sup> day of the semester, a student who drops a course will receive a "WF" on the permanent record.

### **NCAA Approved Courses**

All courses that meet the academic standards for NCAA are highlighted in gray. Please refer to the NCAA Guide for the College-Bound Student Athlete for current eligibility requirements.

## Cumberland High School Graduation Requirements

To graduate from Cumberland High School, a student must earn 24 credits after completing 8<sup>th</sup> grade. State Law requires students to take physical education daily. Each semester students must fill 6 class hours with courses for credit which includes PE. The following credits are required for graduation:

<u>SUBJECT</u>	<u>CREDITS</u>
English	4
Science	2
Math (MUST include algebra & geometry)	3
US 1	½
US 2	½
US 3	½
Civics	½
PE/Health	4
Computer Concepts	½
Careers	½
Fine Arts/Vocational/Foreign Language	1
Electives	7
<b>TOTAL</b>	<b>24</b>

### PUBLIC COLLEGE ADMISSION REQUIREMENTS (GENERAL)

<u>SUBJECT</u>	<u>CREDITS</u>
English	4
Science (Lab sciences: life & physical)	3
Math (4 years are optimal)	3
Social Studies (Emphasis on history/government)	3
Foreign Language	2/3 (Varies with the school)

## **AGRICULTURE DEPARTMENT**

CIP Codes – Business & Management : 01.0100

Mechanization: 01.0200

### Philosophy

Agriculture is an area of study designed to offer students a variety of background information in the field of agriculture occupations. This is accomplished through making the students more aware of farm procedures, farming methods, and farming practices as well as agriculture business occupations. Courses offered in agriculture aim at the development of appreciation of the field of agricultural occupations.

### COURSE OFFERINGS

650 **Intro to Ag Industry** (A100)

**2 Semesters = 1 Credit**

Recommended: Grade 9

Prerequisite: None

Course Description: This is a beginning course that explores the seven major areas of agricultural careers. Students will pursue a study of the great variety of jobs available in each area and begin to learn the competencies needed to be successful in them. Essential components of this orientation course are hands-on experiences, planned field trips, scheduled use of resource persons, individual study and liberal use of visual aid.

654 **Ag. Mech. I** (A320)

**1 Semester = ½ Credit**

Grades 10,11,12

Prerequisite: None

Course Description: This course is designed to provide the student with planned learning experiences in electric arc welding, use of the cutting torch, brazing and fusion welding with oxy-acetylene equipment and identification of the tools employed in these various areas. The student will be provided with the basic fundamentals involved with electric arc and oxy-acetylene welding.

656 **Ag. Mech II** (A320)

**1 Semester = ½ Credit**

Grades 10,11,12

Prerequisite: Ag. Mech I

Course Description: This course is designed to advance student knowledge and skills in the area of agriculture mechanics. Instructional units include safety practices, shielded metal arc welding, gas metal arc welding, oxy-acetylene welding, service and/or repair of mechanical components used in agriculture, organization and management of an agricultural business.

658 **Ag. Business Management I** (A410)

**1 Semester = ½ Credit**

Grades 11, 12

Prerequisite: None

Course Description: Farm resource analysis, accounting, production, financing, resource acquisition, purchasing, farm inputs, performance records, contracts, marketing and maintenance are major areas of study. The results of these learning activities are applied to formulating decisions in managing a farm appraisal business, a farm organization, a farm credit association or other farm related businesses. Various algebraic and geometric computations

related to agriculture will be performed. At least 50 percent of the class will be math related so the class will count toward a math credit.

659 **Ag. Business Management II** (A410)

**1 Semester = ½ Credit**

Grades 11, 12

Prerequisite: A passing grade in Ag. Business Management I

Course Description: A continuation of Ag. Business Management I and includes computer usage.

660 (A335) **Horticulture**

**2 Semesters = 1 Credit**

Grades 10, 11, 12

Prerequisite: None (Biology is beneficial)

Course Description: This advanced course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design, installation, and maintenance, horticulture mechanics, nursery management, and turf production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. The majority of the course is science oriented and will count toward a science credit.

661 (A051) **SAEP I**

**2 Semesters = ¼ Credit**

Prerequisite: None (See description)

Course Description: This experience program is for students in the 9<sup>th</sup> grade. 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 or acceptable plans for doing supervised study, project record book work, training plans and agreements, report writing, and instructor project visitation and supervision are essentials of the supervised occupational experience. Particular attention will be paid to the establishment and planning of a multi-year experience program. This is a pass/fail course.

652 (052) **SAEP II**

**2 Semesters = ¼ Credit**

Prerequisite: None (See description)

Course Description: This experience program is for students in the 10<sup>th</sup> grade. 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 or acceptable plans for doing supervised study, project record book work, training plans and agreements, report writing, and instructor project visitation and supervision are essentials of the supervised occupational experience. Emphasis here will shift from initial planning and establishment of a SAEP experience to summary and evaluation of a completed program. This is a pass/fail course.

663 (A053) **SAEP III**

**2 Semesters = ¼ Credit**

Prerequisite: None (See description)

Course Description: This experience program is for 11<sup>th</sup> grade agricultural students. The opportunities and responsibilities are similar to those discussed under Supervised Agricultural Experience 9 and 10 with the exception that the experiences are conducted at a more advanced

level of skill training. The project should be expanded as the student progresses through the agricultural program. This is a pass/fail course.

664 (A054) **SAEP IV**

**2 Semesters = ¼ Credit**

Prerequisite: None (See description)

Course Description: This experience program is for 12<sup>th</sup> grade agricultural students. The opportunities and responsibilities are similar to those discussed under Supervised Agricultural Experience 9 and 10 with the exception that the experiences are conducted at a more advanced level of skill training. The project should continue to expand as the student progresses through the agricultural program. Particular emphasis will be placed on advanced management skills and techniques. This is a pass/fail course.

702 **Transportation Systems**

**1 Semester = ½ Credit**

Grades 9,10,11,12

Prerequisite: None

Course Description: Semester 1 of this course is designed to provide a working knowledge of small gasoline engines: identification of parts and their function, principles of operation, and types of engines. Students will learn to diagnose, test and repair problems that occur in the maintenance, repair and adjustments of small gasoline engines.

703 **(1140) Transportation Systems II**

**1 Semester = ½ Credit**

Grades 9,10,11,12

Prerequisite: Transportation Systems I

Course Description: This course explores a wide variety of mechanical processes. Students will use scientific and mathematical applications through relevant mechanical topics. In addition, students will complete numerous lab-based and project-based activities that will give students the opportunity to develop an understanding of the scientific process and increase hand-eye coordination and motor skills. Areas of study in this course include careers in agriculture mechanics, mechanical safety and hazards, hand and power tools. Possible topic clusters in this course include electricity, small engines, welding and metal work, wood construction, and mechanical technology. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

671 **CASE Plant: Principles of Agricultural Science (Available Even Years)**

**2 Semesters= 1 credit**

Grades 10,11,12

Prerequisite: Biology

Course Description: CASE Plant is a foundation-level course that will teach students about the form and function of plant systems. Students are immersed in inquiry-based exercises filled with activities, projects, and problems to teach them plant concepts through laboratory and practical experiences. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agricultural and horticultural production. Students will discover the value of plant production and its impact on the individual, the local, and the global economy.

Lessons throughout the course will provide an overview of the field of agricultural science with a foundation in plant science. These lessons include working in teams and exploring hands-on

projects. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

**672 CASE Animal: Principles of Agricultural Science (Available Odd Years)**

**2 Semesters= 1 credit**

Grades 10,11,12

Prerequisite: Biology

Course Description: CASE Animal is a foundation-level course designed to engage students in hands-on laboratories and activities to explore the world of animal agriculture. Throughout the course, students will develop a comprehensive Producer's Management Guide for an animal of their choice. Student experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. For example, students will acquire skills in meeting the nutritional needs of animals while developing balanced, economical rations. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets

## ART DEPARTMENT

### Philosophy

The Cumberland High School Art Program is based on the concept that art is a significant part of a student's life and an important segment of the high school structure. Art serves as a tool for building self-confidence through personal expression and communication. It enriches the present and future lives of those young people who experience it. In essence, it becomes a catalyst for preparing young professionals and/or encourages appreciation of the arts through lifelong learning.

## COURSE OFFERINGS

### 600 Introduction to Art

**2 Semesters =1 Credit**

Recommended for grades 9 & 10

Course Description: This class is designed for the upperclassmen and/or the beginning art student. It is the foundation from which other art courses develop. It will emphasize the basic elements and principals of design. Throughout the course students will learn about different art movements and medias. This is a pre-requisite for Intermediate Art, a semester-long class that will be offered during different semesters. The student must earn the semester grade of at least a "C" for continuation in other advanced art courses.

### 601 Ceramics I

**1 Semester = ½ Credit**

Recommended for grades 10, 11, 12

Prerequisite: None

Course Description: This class will introduce students to the fundamental techniques and creative approaches to the use of clay. Students will experience pinch pots, coils, slabs and other hand building approaches as well as being introduced to wheel work. There will be instruction in glazing and firing clay as well as the application of decorating techniques. This will be a pre-requisite for Ceramics II. Student must earn the semester grade of at least a "C" for continuation.

### 602 Ceramic II

**1 Semester =½ Credit**

Pre-requisite: "C" average in Ceramics I

Course Description: This course is focused on advanced hand building techniques and wheel work, as well as the creative possibilities of clay, glazes, and firing procedures. Students will learn how to push the limits of hand-building, as well as with their wheel work.

### 607 Intermediate Art

**2 Semesters = 1 credit**

Prerequisite: "C" average in Introduction to Art

Course Description: This course focuses on more advanced art techniques and media and is designed for students wishing to pursue further knowledge into the arts. Intermediate Art will take students through the same four basic units of art: drawing, painting, printmaking, and sculpture but with more complex methods. Throughout the semester, students will create art that requires more brainstorming and planning and will actively understand and plan the process of their compositions.



### 608 Ceramics III

**1 Semester = ½ Credit**

Pre-requisite: “B” average in Ceramics II

Course Description: This course is designed to investigate the advanced techniques, as well as the creative possibilities of clay, glazes, and firing procedures. Emphasis is on making artwork and developing technical skills to enable you to use clay as a medium of personal expression and style. Students will be given broad concepts from which they will have to develop projects from. Students will have to write small descriptions of the projects and how it ties in with the concept, including the planning steps on how they will create their project.

### 613 Ceramics IV

**1 Semester = ½ Credit**

Pre-requisite: “B” average in Ceramics III

Course Description: This course is a self-motivated and self-disciplined, privileged class that is designed to investigate the advanced techniques, as well as the creative possibilities of clay, glazes, and firing procedures through an independent study approach. Emphasis is on making artwork and developing technical skills to enable you to use clay as a medium of personal expression and style. Students will create their own contracts, projects, and evaluations for this class. This advanced art class is for the serious art student who would like to concentrate on ceramic art for potential contest entries and possible preparation of a portfolio for college entry in the art field.

### 609 Computer Graphics      **2 Semesters = 1 credit**

Course Description: This year-long course will introduce students to Adobe Photoshop, a computer program that teaches students how to manipulate digital images. Students will also develop skills in visual communications and critique their own and other’s artwork. Students will learn the basics of digital art and how to pursue a career in the graphic design.

### 611 2-D Art

**1 semester = ½ credit**

Course Description: This course is designed to teach students to draw what they see using a variety of media including: pencil, graphite stick, charcoal, pen & ink, oil pastel, color pencil, acrylic based paints, watercolor, and related media. Students will create, critique, evaluate, and appreciate works of art. Art history will be infused through the course.

### 612 3-D Art

**1 semester = ½ credit**

Course Description: This course is designed to introduce students to three-dimensional thinking and creating. We will explore both additive and subtractive sculptural techniques. A variety of media will be introduced including: plaster, packing tape, wire, foil, found objects, and paper mache (depending on time allowed). Students will create, critique, evaluate, and appreciate

works of art. Students will explore their own aesthetic views. Art history will be infused throughout the course.

**BUSINESS DEPARTMENT**  
CIP Codes -- Accounting: 52.0300  
Information Processing/ Secretarial: 52.0400

Philosophy

The role of the business education department is to provide a program that will meet the needs of as many students as possible so that they will become participating citizens of society. The program will contribute to the mental and social development of the student both on a general and career level.

COURSE OFFERINGS

750 **Basic Computer Concepts**(B180)

**1 semester = ½ credit**

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic Computer Concepts is a parallel course to Computer Concepts (751).

751 **Computer Concepts**(B180)

**1 Semester = ½ Credit**

Required: Grade 9

Prerequisite: None

Course Description: During the semester, students will learn Word and Excel applications. This course is a prerequisite to many other business courses.

752 **Advanced Keyboarding**(B160)

**1 Semester = ½ Credit**

Prerequisite: "C" average in Computer Concepts or instructor's approval.

Course Description: Advanced Keyboarding continues the development of skills from Computer Concepts. Production work typically includes letters, manuscripts, statistical tables, and a variety of business forms. Students prepare: office-related projects that are evaluated according to business standards. Excellent keyboarding skills are developed.

753 **Computer Programming**

**1 Semester = ½ Credit**

Recommended: Grades 11, 12

Prerequisite: Pass one year of math

Course Description: The Computer programming class is designed to teach the fundamentals of programming. Using the software Visual Basic (Beginner's All-purpose Symbolic Instruction Code), a popular programming language, students will learn fundamental programming concepts. Visual Basic focuses on practical applications with a hands-on approach that guides students through the thought process of developing programs.

754 **Keyboarding**

**1 Semester = ½ Credit**

Grades 9, 10,11, 12

Prerequisite: Pass one year of math

Course Description: Students will learn and practice the proper techniques used in typing on a standard keyboard.

763 **Desktop Publishing**(B313)

**1 semester = ½ credit**

Grades 11, 12

Prerequisite: Computer Concepts or equivalent course

Course Description: This course introduces the student to the concepts and language of desktop publishing. The student will become familiar with the terminology of desktop publishing, as well as, gaining hands-on experience through the creation of forms, proposals, announcements, brochures and newsletters.

757 **Business Technology Concepts**(B120)

**1 Semester = ½ Credit**

Grades 11,12

Prerequisite: None

Course Description: In this course, suggested areas of study include an orientation to business, marketing and management concepts in the following areas: basic business and economic principles, types of business organizations, organization and use of financial data; management theories; the course also includes business communication competencies such as the business communication theory; writing, listening; reading, and speaking skills; nonverbal communication; communication technology. The third area of concentration is business computation competencies such as cash and checkbook records; salary wages and commission calculations; computing sales information; computing cost; maintenance and operating expenses; computing taxes, computing insurance expenses; performing credit, interest and investment calculations; and understanding business data.

758 **Accounting I** (B340)

**2 Semesters = 1 Credit**

Grades 10, 11, 12

Prerequisite: None

Course Description: In this course, we study the fundamentals of the accounting cycle involved in a single-owner business and a partnership. Students interested in the area of accounting, secretarial or related fields, and/or owning their own business in the future should enroll in this course.

759 **Accounting II**

**2 semesters = 1 credit**

Grades 11, 12

Prerequisite: B or better in Accounting I

Course Description: Accounting II will expand upon principles and procedures learned in Accounting I. Emphasis will be placed on decisions made in the managerial accounting of corporations using more in-depth analysis of financial statements. Instructional strategies may include the use of computers, projects, simulations, and real world experiences to apply accounting theory and generate reports.

764 **Careers**

**1 semester = ½ credit**

Required: Grade 9

Prerequisite: None

Course Description: Students will take some interest inventories to determine careers that most suit them. With this information, students will explore which careers they may want to pursue

and create a plan of study accordingly. Several careers/career clusters will be introduced to inform students of career possibilities following high school.

### **765 Cumberland County CEO**

**2 Semesters = 2 credits (2 class periods)**

Grades 11, 12

Prerequisite: None

Course Description: Entrepreneurship education seeks to prepare people, especially youth, to be responsible, enterprising individuals who become entrepreneurs or entrepreneurial thinkers and contribute to economic development and sustainable communities. The **CEO** program is much more than a textbook course. Rather, students are immersed in real life learning experiences with the opportunity to take risks, manage the results, and learn from the outcomes. Students must fill out an online application and go through a selection process. Students are chosen for the program by the CEO Board consisting of Cumberland County business members, and school staff from both Cumberland and Neoga Schools.

## **ENGLISH DEPARTMENT**

### Philosophy

The English teachers at Cumberland High School believe that every student has the right to learn communication skills and to develop his/her thinking through language as these skills are necessary in order to function effectively in modern society. It is our responsibility as English teachers to provide the opportunity for such learning and development so that the student can master other subject areas with greater proficiency.

### COURSE OFFERINGS

#### **101 Basic English I**

**2 semesters = 1 credit**

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic English I is a parallel course to English I (111).

#### **102 Basic English II**

**2 semesters = 1 credit**

Prerequisite: Individual Education Plan (IEP) required. All students must earn full credit in Basic English I. If this Prerequisite is not fulfilled, permission to take this course must be obtained from the Basic English II teacher and the guidance counselor.

Course Description: Basic English II is a parallel course to English II (112).

#### **103 Basic English III**

**2 semesters = 1 credit**

Prerequisite: Individual Education Plan (IEP) required. All students must earn full credit in Basic English I and Basic English II. If this Prerequisite is not fulfilled, permission to take this course must be obtained from the Basic English III teacher and the guidance counselor.

Course Description: Basic English III is a parallel course to English III (113).

### **104 Basic English IV**

**2 semesters = 1 credit**

Prerequisite: Individual Education Plan (IEP) required. All students must earn full credit in Basic English I, Basic English II, and Basic English III. If this Prerequisite is not fulfilled, permission to take this course must be obtained from the Basic English IV teacher and the guidance counselor.

Course Description: Basic English IV is a parallel course to English IV (114).

### **111 English 1**

**2 semesters = 1 credit**

Required: Grade 9

Prerequisite: None

Course Description: English I is designed to foster growth in critical thinking and a passion for literature through its application to the students' lives. Short stories, poetry, drama, and novels are utilized to expose students to a variety of world literature and authors. In addition, students develop creative and expository writing skills throughout the year while learning to present their products via a variety of multimedia methods. Research and grammatical skills are highly emphasized, as well.

### **112 English II**

**2 semesters = 1 credit**

Required: Grade 10

Prerequisite: All students must earn full credit in English I. If this prerequisite is not fulfilled, permission to take this course must be obtained from the English II teacher and the guidance counselor.

Course Description: English II is designed to further develop proficiency in both oral and written communication and in understanding literature. Students will study various types of literature in depth, build vocabulary, review grammar and sentence-developing strategies, practice public speaking skills, and write essays of varying lengths. In addition, students learn to use library/research tools and develop organizational skills.

### **113 English III**

**2 semesters = 1 credit**

Grade 11

Prerequisite: All students must earn FULL CREDIT in English I and II. If prerequisite is not met:

- English II must be in process of completion either in the regular classroom or in APEX.
- In special circumstances, exceptions may be made with the agreement of the English III instructor, counselor, and administration.

Course Description: English III is a reading, research, writing, and speaking course with an American Literature focus for college and career bound students. This course works closely with critical thinking and analysis both in text and writing. Creativity is an important aspect of all facets of this course and is emphasized in daily and culminated activities tailored to all learning styles. Specific consideration is placed on SAT testing preparation content and test-taking strategies. This course follows the Common Core Standards for 11th grade.

### **114 English IV**

**2 semesters = 1 credit**

Grade 12

Prerequisite: All students must earn full credit in English I, English II, and English III courses. If this is not fulfilled, permission to take this course must be obtained from the English IV teacher

and the guidance counselor.

Course Description: English IV is college preparatory in nature and studies. Senior English students read and study British Literature extensively. Writing skills are emphasized through essays and research. Students are exposed to MLA research style while writing a research paper.

### **116 Speech Communications-Dual Credit\***

**2 Semesters = 1 credit**

Grade 12

Prerequisites: Students must have senior level status and full credits in English I, II, and III (may not have credit from credit recovery program). Also, students:

- Must have earned at least a C in Semester 1 and 2 of English III.
- In special circumstances, other exceptions may be made with the agreement of the English III instructor, the Dual Credit Speech instructor, counselor, and administration.
- Attendance is of utmost importance in a speech course, as you are the audience. Please consider carefully if your school attendance will allow you to be part of this course.

Course Description: Learning outcomes in the course determined by Lake Land College are as follows: communication apprehension, speech composition, research, supportive material, delivery techniques, visual aids, speech to inform, speech to persuade, special occasion speeches, peer evaluations. Additional speeches and activities: monologues, duo interpretation, impromptu, school announcement reading, communication theory, vlogging, as well as many other in class mini creations such as live commercials, etc. The goal of the course is for the student to become an effective and confident speaker both in their public and private lives.

**\*Dual credit courses are subject to higher course fees. The fees are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place. Students may take dual credit courses without receiving the credit from Lake Land College, but are still subject to course fees and stipulations.**

### **117 Multimedia Communications**

**1 semester = ½ credit**

Grade 11 (with approval), 12

Prerequisite: Credit completion of English I and English II and enrollment in English III.

Approved juniors MUST be enrolled in English III and maintain a passing grade in that course.

Media Communications may be used as an English IV credit or may be taken as an English elective.

Course Description: Students will create projects while learning the different aspects involved in multimedia and cultural literacy. The content would include analysis, law, and ethics of mass communication, journalism, editing techniques (both print and video), publication, design, television, radio, new media, and photojournalism. This course counts toward English requirement.

### **142 Vocational English III**

**2 Semesters = 1 credit**

Grade 11

Prerequisite: All students must earn FULL CREDIT in English I and II. If prerequisite is not met:

- English II must be in process of completion either in the regular classroom or in APEX.
- In special circumstances, exceptions may be made with the agreement of the Vocational English III instructor, counselor, and administration.

Course Description: Students will focus on the reading, writing, and speaking skills that are necessary for effective communication in life after high school: social and work communication. Focus is placed on how the elements of literature and writing play a tangible and applicable role in our daily lives. Specific consideration is placed on preparation for the SAT.

### **119 Vocational English IV**

**2 Semesters = 1 Credit**

Grade 12

Prerequisite: English I, English II, and English III

Course Description: Students will focus on the reading, writing, and speaking skills that are necessary for effective communication in the workplace. Specific units will emphasize 21st Century skills while focusing on writing in the workplace, listening and speaking skills, applying for a job, and maintaining professionalism and ethics in the workplace.

**123 Honors English III**

**2 Semesters = 1 credit**

Grade 11

Prerequisites: The student must earn FULL CREDIT in English I and English II courses and obtain a recommendation from their English II and guidance counselor. An average of no lower than a C, appropriate behavior, and acceptable effort must be maintained at all times. If at any time, any of these requirements are not met and/or maintained, the student is subject to removal from the honors program after due process is employed.

Course Description: Honors English III students are presented advanced material, which prepares them for college English and content courses. This is an intense course that focuses on similar curriculum as English II; however, it is designed for those who currently excel in English and can work at an accelerated pace. SAT preparation is included.

**124 Honors English IV**

**2 semesters = 1 credit**

Grade 12

Prerequisite: All students must earn full credit in English I, English II, and English III courses and obtain approval from the English department and the guidance counselor. An average of no lower than a C, appropriate behavior, and acceptable effort must be maintained at all times. If at any time, any of these requirements are not met and/or maintained, the student is subject to removal from the honors program after due process is employed.

Course Description: Honors English IV students are presented advanced material, which prepares them for college English and content courses. Honors English IV is an intense course that focuses on the relatively same curriculum as English IV; however, it is designed for those who currently excel in English and can work at an accelerated pace.

**140 Introduction to Creative Writing**

**1 semester = ½ credit**

Grade 11, 12

Prerequisite: Credit completion of English I and English II and enrollment in English III.

Approved juniors MUST be enrolled in English III and maintain a passing grade in that course. Introduction to Creative Writing may be used as an English IV credit or may be taken as an English elective.

Course Description: This course will introduce students to the process and techniques of creative writing. Students will experiment with various types of writing, including the writing of fiction and poetry. Class readings will expose students to various writing styles and provide examples of the successes and strategies of other writers.

### **141 Survey of World Literature**

**1 semester = ½ credit**

Grade 11, 12

Prerequisite: Credit completion of English I and English II and enrollment in English III.

Approved juniors **MUST** be enrolled in English III and maintain a passing grade in that course. Survey of World Literature may be used as an English IV credit or may be taken as an English elective.

Course Description: This is a semester course that surveys world literature through different genres of literature drawn from a wide variety of languages and cultures. Topics could include colonization, cultural identity, alienation, gender roles, family life, and social class. Students will learn and use analytical skills while applying the conventions of standard written and spoken English.

### **143 DC Composition I- Dual Credit\***

**1 semester = ½ credit**

Grade 12

Prerequisite: Must meet Lake Land College requirements with placement test or ACT/SAT score

Course Description: Students will study the writing process by reading essays that illustrate a variety of rhetorical strategies, analyzing writing tasks and texts, and writing, revising, and editing short essays.

**\*Dual credit courses are subject to higher course fees. The fees are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place. Students may take dual credit courses without receiving the credit from Lake Land College, but are still subject to course fees and stipulations.**

### **144 DC Composition II- Dual Credit\***

**1 semester = ½ credit**

Grade 12

Prerequisite: A "C" or better in Composition I or placement determined by assessment.

Course Description: Students will learn how to find, use, assess and document research sources, producing an extended writing project based primarily on library research.

**\*Dual credit courses are subject to higher course fees. The fees are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place. Students may take dual credit courses without receiving the credit from Lake Land College, but are still subject to course fees and stipulations.**

## **FAMILY AND CONSUMER SCIENCES**

CIP Codes – Homemaker: 20.0101

Child Day Care: 20.0200

Clothing: 20.0300

Food Services: 20.0400

### Philosophy

In Family and Consumer Sciences, the basic goals are to strengthen family life and the home through improving personal, family, and community living and to prepare for professional and non-professional employment in Family and Consumer Sciences and related occupations.

Belief in the importance of family life is basic to all that is taught in the homemaking aspect of the program. Such programs are based on the belief that family life, the basic institute in our society, may be improved through education.

The program is divided into two phases:



1. Occupational Homemaking Programs which are planned to provide males and females with opportunities to develop competencies needed to successfully combine the occupations of homemaking and wage earning.
2. Family and Consumer Sciences places emphasis on attitudes, knowledge and skills related to occupational training offered at the 11<sup>th</sup> and 12<sup>th</sup> year level. This will provide the students with adequate practical skill preparation experiences to gain the competencies necessary for employment, advancement, and/or continued education.

**800 Orientation to Family and Consumer Sciences(H100)**

**1<sup>st</sup> Semester = ½ credit**

Recommended: Grades 9, 10

Prerequisite: None

Course Description: This course is the suggested first course for all programs. It is designed to present basic subject matter in six areas:

1. Resource Management
2. Foods and Nutrition
3. Housing and Home Furnishings and Equipment
4. Human Development, Interpersonal and Family Relationships
5. Introduction to the World of Work

Broad areas of emphasis are listed for each category. These areas are then subdivided into content topics. It is not necessary that the five basic categories be taught in the sequence given. Learning experiences are to be designed to assist students in understanding themselves, their roles in today's society, and the nature of homemaking and other home economics related careers.

If the suggested course content is provided through instruction at earlier grade levels, students should enroll in more advanced subject matter courses at the ninth grade level.

These statements of direction suggest content and learning experiences as well as ways to check student performance or achievement.

**801 Living Environments (H341)**

**1 Semester = ½ credit**

Recommended: Grades 9, 10, 11

Prerequisite: None

Course Description: Learning experiences are designed to provide students with the basic knowledge and skills needed to select, acquire, maintain, and manage living environments that meet the needs of the occupants. The selection and care of housing and furnishings is related to factors such as social-economic conditions, individual tastes, psychological effects, aesthetic values, safety, sanitation, and energy conservation. Emphasis will be placed on the application of basic management principles and techniques in the care and maintenance of the living environment as well as housing construction.

Areas of emphasis: careers related to housing and living environments/ factors that influence living environments/ needs and values met through living environments/life situations that affect

housing decisions/ environmental and structural factors to consider when selecting a place to live/ cost of acquiring different forms of housing/ efficiency and safety of work and storage areas/ maintaining, decorating and remodeling living environments and housing of the future.

802 & 803 **Child Care Occupations**(H320)

**2 Semesters =2 credits**

Recommended: Grades 11, 12

Prerequisite: C or better in Child Development

Course Description: This training level course is designed to provide students interested in a career in child care occupations with the information and practical experiences needed for the development of job related competencies. The students will be provided laboratory experience either in a school-based or extended campus facility. They will be expected to develop appropriate skills in maintenance of the facility and in assisting with the children's activity. Classroom study is concerned with the philosophy and management of child care centers. The major learning experiences will involve actual work with the children, and preparation for that activity. Areas of emphasis: career opportunities in child care/child care facilities and equipment/ educational and creative activities/ assisting in the child care facility. Two class hours are needed to include the lab experience; however, the classroom portion may be taken by itself for 1 credit.

804 **Parenting**(H345)

**1 Semester = ½ credit**

Grades 11, 12

Prerequisite: None

Course Description: 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. Attention is given to the needs of teen-age parents and to the importance of readiness for parenthood.

805 **Child Development**(H140)

**1 Semester = ½ credit**

Recommended: Grades 9, 10

Prerequisite: None

Course Description: In this orientation level course, the development of children from conception up to adolescence is studied. Emphasis is placed on increased understanding of children and the development of basic skills in relating to them. These experiences are used as a basis for classroom discussion and study. Areas of emphasis: career opportunities in child care/ prenatal development/ physical development of children/ social development and relationships/ educational and mental development/ emotional development/ play-purposes and supervisions/ the child with special needs/ child abuse/ the school age child through adolescence.

806 **Clothing and Textiles**(H160)

**1 Semester =½ credit**

Recommended: Grades 9, 10

Prerequisite: None

Course Description: This orientation course is designed to develop students' competencies needed for decisions related to clothing and textiles. Ready-made garments and accessories, as well as clothing constructed by the student will be used as a basis for learning functions of clothing, fiber characteristics, care and sewing skills. Areas of emphasis: career opportunities in

clothing, apparel, and textiles products fields/ clothing roles today/ fibers and fabrics/ consumer information, shopping techniques/ clothing maintenance and care/ sewing equipment/ sewing and other construction skills.

**807 Nutrition and Foods(H120)**

**1 Semester = ½ credit**

Recommended: Grades 9, 10

Prerequisite: None

Course Description: In this orientation level course, students should develop an accurate knowledge of applied nutrition and an understanding of basic principles of food preparation. They will develop skills in using equipment to produce simple, nutritious and attractively served food items made from recipes which they will be required to taste. Emphasis is placed on developing management techniques to aid in combining the roles of homemaker and wage earner. Food buying, safety and sanitation will be stressed. Areas of emphasis: occupations related to foods and nutrition/ nutrients and their relationship to health, energy and appearance/ factors that influence nutrient needs and food choices/ planning the selection and purchase of foods/ skills needed for working with food/ preparation and service of foods.

**808 Adult Living(H347)**

**1 Semester = ½ credit**

Grades 11, 12

Prerequisite: None

Course Description: This course is designed to assist individuals and families in achieving life satisfactions through responsible participation as adults in the home, community and workplace. Emphasis is placed on responding to situations in terms of identified values and goals. Various resources to assist with life problems are explored. Areas of emphasis: life stages/ values, goals and decision making/ human sexuality/ choosing a life style/ changing relationships and roles/ handling stress and conflict/ health maintenance/ social and community concerns/ role of work in adult life.

**809 Commercial Foods/ Food Service Occupations(H312)**

**1 Semester = ½ credit**

Grades 11, 12

Prerequisite: C or better in Nutrition and Foods

Course Description: Students will pay more attention to food selection and preparation for special circumstances and dietary needs. Laboratory sessions would be devoted to preparation of foods with specific emphasis on careers in foods and nutrition, influences on food customs, diet and health, current nutritional issues, planning for special food needs, safety of foods, food purchasing, prevention of food- borne illnesses, conservation in providing food and food preservation. The application of each of these areas of emphasis to food service occupations would be stressed.

## **FOREIGN LANGUAGE**

### **Philosophy**

The study of a foreign language increases the student's understanding of how language functions. Literature and culture are studied to create understanding of foreign speaking people.

## **COURSE OFFERINGS**

### **511 Spanish I**

**2 Semesters =1 credit**

Recommended: Grades 9, 10

Prerequisite: None

Course Description: Students are taught the four language skills simultaneously. Listening, speaking, reading, and writing are learned through a modified aural-oral process. Cultural and literary aspects of the language are introduced. Grammatical concepts are presented with the dialogue and with drills.

### **512 Spanish II**

**2 Semesters =1 credit**

Recommended: C or better in Spanish I

Prerequisite: Spanish 1 (511)

Course Description: All four language skills are stressed. Speech and comprehension is followed by reading and writing. Grammatical concepts are reviewed and practiced continuously. Literature and culture are essential to this stage of learning.

### **513 Spanish III**

**2 Semesters =1 credit**

Prerequisite: C or better in Spanish II (512)

Course Description: Classroom activities reinforce language skills, literary knowledge, and cultural understanding.

### **514 Spanish IV**

**2 Semesters = 1 credit**

Prerequisite: C or better in Spanish III (513)

Course Description: Classroom activities reinforce language skills, literary knowledge, and cultural understanding.

## **INDUSTRIAL ARTS DEPARTMENT**

CIP Code – 46.1000

### **Philosophy**

The philosophy of the Cumberland High School Industrial Arts Department supports the idea that Industrial Arts is essential for preparing students for living and earning a living. All students who so elect are provided a variety of experience with tools, materials, and procedures which are representative of most of the trades industry.

The primary purpose is to familiarize students with the tools, products, processes, and occupations of industry. These activities are in general exploratory in nature and continue to be exploratory until students require more specialized training.

### **COURSE OFFERINGS**

#### **850 Industrial Education Orientation(I100)**

**2 Semesters = 1 credit**

Recommended Grades 9, 10

Prerequisite: None

Course Description: This course is a series of units in Production Technology, Transportation Technology, communication Technology and Energy Utilization Technology. Each unit will cover the resources, technical processes, Industrial Applications technological impact and occupations encompassed by that system. Sub-units under Production include product design, materials, and processes, tools and equipment, safety procedures, corporate structure, management, research and development, production planning, mass production. Marketing and servicing.

Sub-units under Transportation include material handling, atmospheric and space transportation, marine transportation, terrestrial transportation and drafting, radio and television broadcasting, computers in communication, photography, graphic arts, and telecommunications. Sub-units under Energy Utilization include conversion of energy, electrical fundamentals, solar energy resources, alternate energy resources, fossil fuels, nuclear power, energy conservation, and computer uses in energy technology.

#### **851 Industrial Systems I(I333)**

**2 Semesters = 1 credit**

Grades 10, 11

Prerequisite: C or better in Industrial Education Orientation (850) or instructor's approval.

Course Description: This course covers the procedures involved in the manufacturing of metals, plastics, wood, ceramics, etc. It consists of an in-depth study of manufacturing, processes, machines, techniques and their principles. It will also include manufacturing costs, profits, labor relations, safety, supply and demand, location of industries, employee gains, wastes, profit sharing, packing, storage and shipment of products.

#### **852 Construction Skills**

**2 Semesters = 1 credit**

Grades 11, 12

Prerequisite: C or better in Industrial Education Orientation

Course Description: This course provides experiences related to construction, installation and maintenance of residential buildings and related fixtures. Planned learning activities will allow students to become knowledgeable of fundamental principles and methods and to develop

technical skills related to carpentry, building maintenance, and finished work. Topics covered include safety, lumber sizes and standards, foundation layout methods, building concepts and procedures, local, state and federal building codes, cost estimating, designing and planning, and blueprint reading.

854 **Industrial Systems II**(I433)

**2 Semesters = 1 credit**

Grades 11, 12

Prerequisite: B or better in Industrial Systems I (851) or instructor's approval

Course Description: This course deals with management, manufacturing, construction, research and development of a product, marketing, transportation of materials, time and motion studies, safety standards, unionism, product cost analysis, stocks and financial transactions.

856 **Cabinet Making**(I425)

**2 Semesters =2 credit (2 class hours)**

Prerequisite: B or better in Industrial Systems II (852) or instructor's approval

Course Description: This course provides planned learning experiences designed to allow students to gain knowledge and skills in planning, designing and constructing fabricated wood products. Instruction will include blueprint reading, drafting, the properties of various types of woods, jointing and fitting methods and applications, properties of glues, and their applications, and safety learning experiences will also include: methods of designing cabinets, vanities and mantels, staining techniques and applications, types and applications of finish, cost estimating, material selection, customer relations, and employer-employee relations. Topics will include: modular construction of interior cabinetry (hexagon, octagon, curvature, and suspended cabinets); installing Formica counter tops, wall and base cabinets and hardware. Instructions will be given in preparing bills of material for construction costs and purchasing materials.

## MATHEMATICS DEPARTMENT

### Philosophy

On the precedent that mathematics is fundamental to every individual, the Mathematics Department exists to enlighten, assist, strengthen, instill, stimulate, and develop appreciation, desirable attitudes, and practical aspects of mathematics.

### **200 Consumer Math**

**2 Semesters = 1 credit**

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Consumer Math provides a variety of realistic, consumer-oriented applications through the use of basic mathematic concepts

### **201 Basic Math**

**2 Semesters = 1 credit**

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic Math places an emphasis on a basic understanding of mathematic concepts and operations that are necessary for life.

### **204 Basic Geometry Concepts**

**2 Semesters = 1 credit**

Prerequisite: Individual Education Plan (IEP) required. Student must successfully complete Basic Algebra.

Course Description: Basic Geometry is a parallel course to Introductory Geometry (212).

### **210 Algebra 1A**

**2 Semesters = 1 credit**

Recommended: Grades 9

Prerequisite: C or below in 8<sup>th</sup> grade math class

Course Description: This is the first course in a two-year Algebra sequence. At the end of this year, the student will have covered the first half of the topics covered in an algebra course. Students will move directly into Algebra B after successfully completing this course.

### **211 Algebra 1B**

**2 Semesters = 1 credit**

Prerequisite: Algebra 1A or teacher recommendation

Course Description: This is the second course in the two-year algebra sequence. At the end of this two-year period, the student will have covered the same topics as offered in the algebra course.

### **212 Introductory Geometry**

**2 Semesters = 1 credit**

Prerequisite: Successfully complete Math 210 & 211 or teacher recommendation

Course Description: A geometry course geared towards students struggling in Algebra or Algebra B. This complete geometry course has clear directives and a variety of problem solving and critical thinking activities to reinforce content. Leveled exercises allow for differentiated instruction. This course is not proof driven.

### **214 Intermediate Algebra**

**2 Semesters = 1 credit**

Grades 11, 12

Prerequisite:

Course Description: This class is for students who have taken Algebra and a Geometry class but lack the necessary skills for Advanced Algebra. Selected topics from Advanced Algebra will be covered at a slower pace and with less depth, in addition to a review of selected topics from Algebra and Geometry.

### **221 Algebra**

**2 Semesters = 1 credit**

Grades 9

Prerequisite: At least a C in 8<sup>th</sup> grade math class or permission of the teacher.

Course Description: This course is intended for those students who did at least average work in previous math courses. Students will use statistics and geometry as settings for work with linear expressions and sentences. Probability will provide a context for algebraic fractions, functions and set ideas. There is much work with graphing.

### **222 Geometry**

**2 Semesters = 1 credit**

Prerequisite: Successfully complete Algebra with recommended C or better

Course Description: This course presents coordinates, transformations, measurement formulas, three dimensional figures, and the logical and conceptual precursors to proof.

### **223 Advanced Algebra**

**2 Semesters = 1 credit**

Prerequisite: Successfully complete geometry with C or better, or permission of teacher.

Course Description: Students will learn to manipulate linear, quadratic, exponential, logarithmic, and trigonometric expressions and sentences.

### **224 Trigonometry and Pre-Calculus**

**2 Semesters = 1 credit**

Prerequisite: Successfully complete Advanced Algebra and Geometry.

Course Description: This class is a combination of Trigonometry and Pre-Calculus. This course will cover the trigonometric functions, the graphs of trig. functions, trig. identities and equations, vectors and parametric equations, polar coordinates and complex numbers, conics, exponential and logarithmic functions, sequences and series, combinatorics and probability, statistics and data analysis, and an introduction to calculus.

### **240 College Prep Pre-Calculus-Dual Credit\***

**2 Semesters = 1 credit**

Prerequisite: Acceptable score on Lake Land College placement test or ACT/SAT.

Course Description: A unified study of the algebraic and trigonometric concepts needed for calculus. Students will use a wide variety of functions and their graphs, including polynomial, rational, exponential, and logarithmic functions, to model and solve problems. Students will also investigate characteristics of trigonometric functions and their graphs. A graphing calculator is required; students will be able to borrow a graphing calculator for home and school use if needed.

**\*Dual credit courses are subject to higher course fees. The fees are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place. Students may take dual credit courses without receiving the credit from Lake Land College, but are still subject to course fees and stipulations.**

### **241 College Prep Calculus-Dual Credit\***

**2 Semesters = 1 credit**



Prerequisite: Successfully complete Math 224 or acceptable score on Lake Land College placement test or ACT/SAT.

Course Description: This course integrates the conceptual underpinnings of calculus with the topics of discrete mathematics. Topics covered include maxima, minima, infinite sequences, limits, derivatives, formal logic, recursion, mathematical induction, and graph theory.

**\*Dual credit courses are subject to higher course fees. The fees are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place. Students may take dual credit courses without receiving the credit from Lake Land College, but are still subject to course fees and stipulations.**

## **MUSIC DEPARTMENT**

### Philosophy

The philosophy of the Music Department is basically three parts:

1. The functions of the various performing groups must be centered first of all around the needs and wants of the individual members of that group. They must not be preempted by the school's need for a public relations vehicle or the director's wants to bring honors or prestige to himself/ herself.
2. The majority of the students in school are listeners and not performers. This necessitates that a major portion of the music curriculum be devoted to listening and appreciation type courses.
3. A small number of the program will go on with music after they leave high school and their individual needs must be met.

### COURSE OFFERINGS

#### **550 Band**

**2 Semesters =1 credit**

Prerequisite: None

Course Description: Open to all students who have played in Middle School Band. The band plays half-time shows at all football games, performs in parades in the area as well as other locations and also plays in all the pep assemblies and basketball games. The concert band gives several concerts a year. Also attends several clinics, contests and festivals throughout the year. These activities are a part of the overall grade for the class.

#### **551 Choir**

**2 semesters = 1 credit**

Prerequisite: None

Course Description: Open to all male and female students. Students will learn part singing in three to four part harmony. Students should be able to sing a melody line. Also be able to read one line of music or be willing to learn. Choir performs concerts along with the concert band, attends clinics, contests and festivals throughout the year. These activities are a part of the overall grade for the class.

#### **552 Music Appreciation**

**1 Semester = ½ credit**

Prerequisite: None

Course Description: This course should provide music education to band and choir students and to students who do not play a band instrument. Within this course students will explore the fundamentals of music, various composers and performers, cultures, styles, genres and periods

of music. Furthermore, it is the aim of this course that students learn to understand, respect and appreciate music on a more personal level. It should be offered to all levels of students.

### **6 After School Choir**

**2 Semesters = ½ credit**

Prerequisite: None

Course Description: Same course description as choir. Students will meet at least one day after school. Transportation home will not be provided by the school. This is a pass/fail course.

### **7 After School Band**

**2 Semesters = ½ credit**

Prerequisite: Middle School Band

Course Description: Same as band. Students will meet at least one day before or after school. Transportation will not be provided by the school. This is a pass/fail course.

## PHYSICAL EDUCATION DEPARTMENT

### Philosophy

Physical Education is that part of the total educational program which provides skilled leadership and adequate facilities in a wide variety of health, sports, and recreational activities thus affording opportunity for the individual or group to act in situations which are physically wholesome, mentally stimulating and satisfying and socially sound.

### COURSE OFFERINGS

#### 903 **Basic Health**

**1 Semester = ½ credit**

Required: Grade 9

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic Health is a parallel course to Health (913).

#### 910 **Physical Education – 1<sup>st</sup> Semester**

**1 Semester = ½ credit**

Required: All Grades

Course Description: Physical Education is an important part of our curriculum. Boys and girls learn to keep physically fit. Fair play and honesty are values developed in our physical education program.

Games are planned to insure that students learn team activities as well as individual activities. An emphasis is placed on the student's attitude and sportsmanship through use of various games and activities:

Archery	Indoor Games	Badminton	Dance
Recreational Games	Basketball	Soccer	Weight Training
Fitness	Softball	Flag Football	Gymnastics
Speedball	Field Hockey	Tennis	Volleyball
Frisbee	Track	Golf	

#### 911 **Physical Education – 2<sup>nd</sup> Semester**

**1 Semester = ½ credit**

Required : All Grades

Course Description Follows format of P.E. for 1 semester.

#### **Driver Education- See Guidance Counselor to sign-up**

**1 Quarter = ¼ credit**

Prerequisite: A students must pass 8 courses during the previous 2 semesters to be eligible (Subject to change based on state mandates!)

Course Description: Driver Education is planned classroom instruction and practice driving designed to develop proper habits and attitudes, skills and background knowledge to use a motor vehicle. The course includes 30 hours of classroom instructions and 6 hours of driving instructions. Attendance is a requirement in this class per state law.

#### 914 **Health**

**1 Semester = ½ credit**

Required: Grade 9

Prerequisite: None

Course Description: A study of basic concepts in the areas of the human body, psychology, smoking, human sexuality, mental illness, first aid, C.P.R., alcohol and narcotics. A practical study of the effects on the body to the everyday stress of living.

#### 915 **Physical Education –Weight Training**

**2 Semesters = 1 credit**

Grades 10, 11, 12

Course Description: Students will focus on weight lifting as a form of physical education.

## **SCIENCE DEPARTMENT**

### Philosophy

The development of skills and critical thinking contribute to the education of the total individual. All science courses should be relevant and geared to the personal and social development of the student. It can be assumed that certain broad areas of personal and social significance should be studied by all students and therefore be part of the required course. Elective courses should be made available to all who care to take them and who would profit from them.

## **COURSE OFFERINGS**

### **300 Basic Physical Science I**

2 semesters = 1 credit

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic Physical Science I is a parallel course to Physical Science (311).

### **301 Basic Biology 1**

2 semesters = 1 credit

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic Biology is a parallel course to Biology I (312).

### **311 Physical Science I**

**2 Semesters = 1 credit**

Grades 9, 10

Prerequisite: None

Course Description: This course focuses on basic principles of chemistry and physics. The chemistry portion of the course will include properties and states of matter and atomic structure, as well as organizing principles of the periodic table, basic theory of chemical bonding and chemical reactions, and fundamentals of nuclear chemistry. The physics portion includes the study of motion and forces, fluid dynamics, energy, waves, sound, and optics. Students will learn and apply scientific and engineering practices in a variety of activities, including laboratory investigations and computer simulation activities.

### **313 Earth Science**

**2 Semesters = 1 credit**

Grades 9, 10, 11, 12

Prerequisite: None

Course Description: This course is designed to study the basic concepts in the fields of Earth Chemistry, Physical Geology, Historical Geology, Meteorology, and Astronomy. Units developed in Earth Chemistry include: an introduction to Earth Science, the nature of matter, and the structure of the atom. Physical Geology units include: rocks and minerals, plate tectonics, exterior and interior building forces, and weathering and erosion. Units in Historical Geology include: fossils, dinosaurs, and geologic time. Meteorology units include: cloud formations, barometric pressure, and weather prediction. Units in Astronomy include: structure of the universe, structure of our solar system, and earth's relationship in space. Lesson worksheets and additional handouts have been prepared to assist the student with laboratory

procedures and exercises. Quarter projects are also required for supplemental work outside the classroom.

### **321 Biology I**

**2 semesters = 1 credit**

Grade 9,10

Course Description: This course is designed to study the basic fundamental processes and structures common to all living things. The course will be broken down into several units, each consisting of several individual topics. The units that will be included in Biology I include the following: biological method, ecology, biochemistry, cell biology, genetics, and evolution. This course will include extensive laboratory work. An online textbook, online resources, and printed materials will be used for this course. Use of the internet at home will be extremely helpful, but not absolutely necessary to succeed in this class.

### **322 Biology II**

**2 Semesters = 1 credit**

Grades 10,11, 12

Prerequisite: At least a C average in Biology I.

Course Description: This upper-level course is designed to study in depth the units of zoology, micro-biology, human anatomy, and forensics. There will be an emphasis on the societal importance of all of these topics. This course will include extensive laboratory work in each of the units covered, including complete dissection of the cat and various animals. An online textbook, online resources, and printed materials will be used for this course. Use of the internet at home will be extremely helpful, but not absolutely necessary to succeed in this class.

### **323 Chemistry**

**2 Semesters = 1 credit**

Grades 10, 11, 12

Prerequisite: Algebra and A,B, average in Biology I or Biology IA, and Physical Science I or teacher recommendation

Course Description: This course introduces the student to basic chemistry concepts which are reinforced through laboratory exercises. The major concept studied are the mole, gas laws, liquids and solids, use of the periodic table, atomic theory, bond energies and Electro-negativity chemical kinetics, equilibrium, water and ionic solutions, acid and base reactions, oxidation/reduction reactions and organic chemistry. Emphasis of measurements is on the metric system.

### **324 Physics**

**2 Semesters = 1 credit**

Grades 11, 12

Prerequisite: Algebra I and Geometry, and A,B, average in Biology I and/or Physical Science I or teacher recommendation

Course Description: This course introduces the student to basic concepts of physics. The concepts are reinforced through laboratory exercises. Concept of study include motion, vectors, forces, friction, gravitation, momentum work and power, energy, heat, states of matter, waves and energy transfer, sound, light, reflection/refraction, mirrors and lenses, static electricity,

electric fields, electric currents, circuits, magnetism, electromagnetic induction, and nuclear physics. Metric measurements are stressed.

### **331 Natural History of Vertebrates**

**1 Semester = ½ credit**

Grades: 11, 12

Prerequisite: At least a C average in Biology I or Biology II

Course Description: This semester course will present a natural history survey of the vertebrate classes from the fishes through the mammals. Included in the course will be evolutionary patterns, characteristics, identification and classification. Extensive dissection work will be completed for each class of animals. This class will use college level materials and will be counted as a weighted level course.

### **332 Ecology**

**2 Semesters = 1 credit**

Grades: 11,12

Prerequisite: Biology I

Course Description: This semester course will present some of the basic ecological principles including populations, ecosystems, biomes and pollution. This course will also put emphasis on preservation of our natural environment and resources. It will require extensive field work collecting data from forest, river, and pond ecosystems. Data then will be thoroughly analyzed by the students and will be presented in scientific reports.

### **334 Chemistry II**

**2 Semesters = 1 credit**

Grade

11.12

Prerequisite: Completion of chemistry I with a "C" or better

Course Description: This class will cover two main topics: the first is the conclusion of basic chemistry, which includes: Thermochemistry, reaction rates, acids and bases, and oxidation-reduction reaction. The second topic will be an introduction to organic chemistry. The topics covered will involve, hydrocarbon compounds, functional groups, and organic nomenclature.

### **335 Physics 2**

**2 Semesters = 1 credit**

Grades 11, 12

Prerequisite: A or B in Algebra I and Geometry, or teacher recommendation (completion of Physics 1 is recommended but not required).

Course Description: This course introduces and explores the following topics: states of matter, waves and energy transfer, sound, light (lasers), reflection/ refraction, mirrors and lenses, static electricity, electric fields, electric currents, circuits, magnetism, electromagnetic induction, and nuclear physics. These topics will be reinforced through several complex laboratory exercises. Students will also be introduced to the modern theories of atomic and subatomic physics including: quantum mechanics, string theory, and particle physics.

### **340 Bio 100-Dual Credit\***

Grade: 12

**2 Semesters = 1 credit**

Prerequisite: At least a C average in Biology I, Application process for dual credit (See End Notes of Catalog)

Course Description: This dual credit course covers the following topics: introduction to biology, ecology, metric system, cell chemistry, the microscope, cells, osmosis, enzymes, photosynthesis, cellular respiration, protein synthesis, mitosis, meiosis, genetics and evolution. Additional requirements also include extensive lab work, writing a research paper along with an oral presentation, comprehensive unit tests and comprehensive semester finals are required for this class. Students that complete this college level course with a C will receive both college and high school credit. Students that complete this course with a D will receive high school credit only. This class will use college level materials and will be counted as a weighted level course. Students will earn 4 credit hours from Lake Land College.

**\*Dual credit courses are subject to higher course fees. The fees are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place. Students may take dual credit courses without receiving the credit from Lake Land College, but are still subject to course fees and stipulations.**

## SOCIAL STUDIES DEPARTMENT

### **401 Basic Geography**

**1 Semester = ½ credit**

Grade 10,11,12

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic Geography is a parallel course to Geography (411).

### **4031 Basic US 1**

**1 Semester = ½ credit**

Required: Grade 10

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic State and Local History is a parallel course to US1 (4131).

### **4032 Basic US History 2**

**1 Semester = ½ credit**

Required: Grade 10

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic American History is a parallel course to American History (4132).

### **4033 Basic US History 3**

**1 Semester = ½ credit**

Required: Grade 12

Prerequisite: Individual Education Plan (IEP) required.

Course Description: Basic US 1 is a parallel course to US History 1 (4133)

### **411 Geography**

**1 Semester = ½ credit**

Grade 9, 10, 11, 12

Prerequisite: None

Course Description: Geography surveys our world and its global community. Emphasis is placed on the effects of the physical environment and its impact on the lives of people in different regions, including the United States and Canada.

### **4131 US History 1**

**1 Semester = ½ credit**

Required: Grade 10

Prerequisite: None

Course Description: A chronological study of American History starting with European discovery through the 1830's. An important part of the class is a focus on the U.S. Constitution and students are required to pass the Constitution test in order to graduate from high school. Lecture, discussion, debate, videos, pictures, and other methods are employed to give the student a better understanding of the birth and early growth of the United States of America.

### **4132 US History 2**

**1 Semester = ½ credit**

Required for Grade 10

Prerequisite: U.S. History 1

Course Description: A chronological study of American History from Westward Expansion through WWII. Social and economic forces are stressed, as well as traditional political aspects of our country's past and present. The survey of American History and a focus on contemporary politics/ current issues makes this course relevant to high school students. Lecture, discussion, debate, demonstrations, group projects, videos, pictures, and other methods are employed to make the student capable of evaluating and interpreting the events of the nation and world in which he/she lives. Special emphasis is placed upon minority groups, race relationships and reform movements achieved in a democracy.



### **4133 US History 3**

**1 Semester = ½ credit**

Required for Grade 12

Prerequisite: U.S. History 1, U.S. History 2

Course Description: A chronological study of American History from WWII to the Present Day. Each decade will be examined as to the cultural significance and issues of the time. Special subjects that will be covered include the Holocaust, Cold War, Vietnam, JFK assassination, Civil Rights Movement, 9/11, and Presidential policies in the late 20<sup>th</sup> and 21<sup>st</sup> centuries. Students will engage in lecture, debate, and discussion as well as writing to critically evaluate and interpret the events of the nation and the world both at the time studied and their impact on the future.

### **432 World History 1**

**1 Semester = ½ credit**

Grades 10,11,12

Prerequisite: None

Course Description: The survey Western civilization from the formation of the Earth, prehistoric times, cradles of civilization, including Egyptian and Middle Eastern cultures as well as Greek and Roman history. Will also look at the rise of Christianity through the Middle Ages and the Renaissance. Emphasis is placed on Christian history, Islam and the Great Crusades.

### **433 World History 2**

**1 Semester = ½ credit**

Grades 10,11,12

Prerequisite: None

Course Description: The survey of World History from the Renaissance through present day. Topics include the Age of Discovery, exploration of the American continents, Asian History, African slavery, colonization, European domination, the rise of Communism, and world wars. Emphasis is placed on the ideas, inventions, and world events that contributed to the rise of the United States of America.

### **434 Civics**

**1 Semester = ½ credit**

Required Grade 12

Course Description: Civics education will provide instruction in government, history, law, and democracy. We will incorporate into the classroom the discussion of current local, national, and international events, particularly those that young people view as important for their lives. The ultimate goal of the course is to prepare young adults for life after high school. Topics covered will be government, including the US and State Constitution, taxes, voting, budgeting money, checking and credit accounts, and investing for the future. Other topics may be added based on time and student interest.

### **425 Psychology I**

**1 Semester = ½ credit**

Grades 11, 12

Prerequisite: None

Course Description: Psychology is a part-science and part-social science course that deals with various aspects in the understanding of human behavior. General topics pertinent to teenagers include human development and behavior, learning and language, motivation and emotion, theories of personality, psychometric testing, clinical, and abnormal psychology. Particular focus is placed on adolescent, sports, achievement, and other forms of psycho-social development as it relates to the teenage years. The course is taught in a discussion based

manner in which experiments and other scientific procedures are used in stimulating students to gain a general understanding of human nature and behavior.

**426 Psychology II**

**1 Semester = ½ credit**

Grades 11, 12

Prerequisite: Passing Grade in Psychology I or teacher approval.

Course Description: A college-preparatory class which delves into advanced issues in psychology (see Psychology). The course is writing intensive with essays required.

**4101 Current World Issues**

**2 Semesters = 1 credit**

Grade 11,12

Prerequisite: None

Course Description: A topical study of current issues facing the United States and the world in general. Students will be responsible for watching, listening, and examining pertinent topics currently making headlines in the world. Heavy emphasis will be placed on comprehension, writing skills, presentations, and class discussion of specific events. Students will be analyzing and determining how certain events play a role on society. This is a weighted course which means that the level of instruction will be along the lines of a college class. Participation in class discussions is a major part of the class grade.

## ADDITIONAL COURSES

937 **Health Occupations Core of Skills(N400)-Dual Credit\*** Sarah Bush Lincoln Program  
**2 Semesters = 2 credits** Grades 12

Prerequisite: Application process; 3.0 Cumulative GPA or higher

Course Description: Due to limited enrollment, grades/ course work will determine who is admitted to the program. This course includes classroom, laboratory, and clinical experience to give the student a basic understanding of the concepts and philosophy of health care. The student will gain an understanding of the nature, scope and diversity of jobs in the health care field through the exploration of over 50 health careers in the hospital and throughout the community. Basic skills common to most health occupations will be taught such as vital signs, aseptic technique, and body mechanics. This 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 experience) 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. Students will be responsible for providing their own transportation to Sarah Bush Lincoln Health Center and their own uniforms. Students enrolled in this class during their junior year will be certified to hold jobs as nurse assistants during their senior year. Nurse assistants are employed in hospitals, medical and dental offices, nursing homes, and veterinary offices.

**\*Dual credit courses are subject to higher course fees. The fees are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place. Students may take dual credit courses without receiving the credit from Lake Land College, but are still subject to course fees and stipulations.**

## **COOPERATIVE WORK TRAINING**

### Philosophy

The basic purpose of Cooperative Work Training is to assist students in learning vocational skills through work experiences while enrolled in high school. The classroom portion of the program involves explaining the world of work through written work, discussions, hands-on experience, guest speakers and field trips. On the job training will provide knowledge of work related concepts which are necessary for further training and future employment.

904 **C.W.T. Instruction** & 905 **C.W.T. Work**  
**2 semesters = 2 credits**

Prerequisite: Individual Education Plan (IEP) required. Student must have a junior standing and required testing. Student must submit application for the program and be approved by the CWT Coordinator, Guidance Counselor, or Administrator.

Course Description: Cooperative Work Training is a work experience program with an in-school related class designed to meet the special needs of its students. These needs may be economic, academic, social, or the lack of vocational skills.

The goal of this course is to develop competencies adequate for wage earning employment. Students must be at least sixteen years old. They will receive work training at a minimum of 5 to 15 hours per school week.

\*Only one academic credit can be earned on the job portion during the junior and senior years.

### **End Notes**

- **Dual Credit Requirements:** (Applicable to all dual credit courses)
  - Must have a high school GPA or a “C” (2.0) or better
  - Must maintain a “C” (2.0) average to continue taking dual credit courses
  - You are a Lake Land College student when enrolled in dual credit courses. An Intent to Enroll form must be submitted to Lake Land College.
  - The grades you earn in dual credit courses will be on record throughout your college career on a Lake Land College transcript
  - Attendance is extremely important; poor attendance can negatively affect your grade and grade point average.
  - Dual credit courses are subject to higher course fees. The fees for the course are due prior to the first day of school. If fees are not paid in full, an alternate course will be assigned in its place.
  - Students may take dual credit courses without receiving the credit from Lake Land College but are still subject to course fees and stipulations.
  
- **Course Offerings may vary**
  - Courses listed in the catalog may not be offered every year
  - Some course may be offered only alternating years or on a rotation