

INTRODUCTION

The course description booklet is designed to help Carterville students plan their programs of study from the variety of courses offered at our high school. Students should plan their high school programs with the help of their parents, counselors, and teachers. In this booklet, each course is listed with the grade level, prerequisites (if any), and course descriptions. In addition, this booklet provides information about graduation requirements, scheduling, and other areas of interest. This booklet is intended to assist students in making educational decisions about their high school programs. Seniors have priority in course selection, then juniors, sophomores, and freshmen.

The Guidance Department maintains an informational center pertaining to college data, scholarships, testing, and other related information that is available to all students. Students are encouraged to meet often with their guidance counselors to keep informed of new college requirements or course offerings or scholarship availability.

Students are responsible for meeting the requirements of colleges and universities that they may wish to attend. The best source with the most up-to-date information regarding a specific college's entrance requirements is that college's website. In addition, our guidance office has available resource books with this information, and colleges provide catalogs to students who are interested in possibly attending.

In this course description booklet there are classes that are considered full year as well as semester classes. A full year course equals one credit if the student earns a passing grade; a semester course equals $\frac{1}{2}$ credit if the student earns a passing grade. Students will not be allowed to take more than one class per day in which they receive no credit (study hall).

Schedules

CHS students are encouraged to think and to plan carefully in selecting classes for the next year. Parent involvement is critical in this process. Class schedules will be processed using the information that the counselor receives during registration.

Schedule Changes

A student and parent are expected to invest considerable time and thought into course selection. The master schedule of the High School is developed upon initial student requests. Considerable changing of individual schedules would invalidate this process. Therefore, any request for a schedule change must be based upon strong educational reasons.

Schedule changes will be subject to the following procedures: add and/or drop. During the first five (5) days of each semester a course may be added and/or dropped provided:

- (1) space is available in the course to be added
- (2) a minimum course load remains for the student's schedule
- (3) the change is educationally sound
- (4) the student's parent(s) agree(s).

Withdrawal from a course (including a dual credit class at JALC) may be made without academic penalty up to five (5) attendance days in a course. Students may reduce their load to only six (6) courses including physical education and one study hall. After five days of attendance, a 'WF' will be recorded for the semester except for cases of illness, clear misplacement, or full withdrawal from school. A 'WF' will be recorded on the permanent record for the semester.

REQUIREMENTS FOR GRADUATION

1. **English (4 credits)**
freshman, sophomore, junior, and senior years (passing one level before proceeding to the next level)
2. **Social Studies (3 credits)**
US Government (1/2 credit) – freshman year
Geography/Economics (1/2 credit) – freshman year
World Studies (1 credit) – sophomore year
U.S. History (1 credit) – junior year
3. **Mathematics (3 credits)**
freshman, sophomore, and junior years
4. **Science (3 credits)**
freshman, sophomore, and junior years
5. **Consumer Education (1/2 credit or one semester)**
Personal Finance (1/2 credit) – senior year

A state-level consumer education proficiency test has been developed that, if passed, allows students to waive taking this class. The exam is given one time per year, in September. The test is free. Students must pre-register with the counselor.
6. **Health (1/2 credit or one semester)**
freshman year
7. **Physical Education (3 ½ credits)**
8. **Speech (1/2 credit or one semester)**
senior year
9. Electives may be chosen from the areas of music, art, foreign language, business, family and consumer science, industrial education, or vocational classes.
10. A minimum of twenty-four (24) credits is required for graduation. Students who fail classes are encouraged to meet with the guidance counselor to plan when and where these classes can be made up. Meeting the minimum requirement to graduate from Carterville High School does not necessarily meet college entrance requirements. The preceding page contains entry requirements for Illinois universities.

PLANNING YOUR FOUR-YEAR HIGH SCHOOL PROGRAM

FRESHMAN

1. English
2. Science
3. Math
4. Health & PE
5. Government & Geography/Economics

6. Elective
7. Elective

SOPHOMORE

1. English
2. Science
3. Math
4. PE
5. World Studies

6. Elective
7. Elective

JUNIOR

1. English
2. Science
3. Math
4. PE
5. US History

6. Elective
7. Elective

SENIOR

1. English
2. Speech & Personal Finance
3. PE

4. Elective
5. Elective
6. Elective
7. Elective

Graduation requirements are listed in your student handbook and in this course description book. Students are responsible for contacting the high school counselor about making up failed classes and for meeting the requirements of colleges that they may wish to attend.

A summary of the minimum high school course requirements for Illinois state universities is listed at the front of this book. These general requirements are true for most 4-year universities. If you are a college-bound student, check this page or with the Guidance Office to make sure you take classes to meet these requirements.

BUSINESS

52 – PERSONAL FINANCE (REQUIRED)

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 12

This course introduces students to the fundamentals of personal finance. It will cover basic concepts in income and career planning, budgeting and cash-flow management, credit card use, installment purchasing and planned borrowing for major expenditures such as automobiles and housing, taxes, savings and investments (stocks, bonds, and mutual funds), banking, retirement planning, and other basic consumer skills. This course also covers the essentials of risk management, including property and liability insurance, as well as life insurance, basic contract law, and estate planning. Various software simulations may be used as a supplement to give students a sense of managing their personal finances in the real world. This course satisfies the state requirement for consumer education as well as the provisions set forth in Public Act 94-929: Financial Literacy Instruction.

109 – HIGH SCHOOL PUBLICATIONS

Credits: 1
Prerequisites: Consent of Instructor (Incoming Freshman – must complete an application)
Grade Level: 9, 10, 11, 12

The primary responsibility of the Publications class is to plan, design, and publish the annual yearbook, the Lionite. All aspects of yearbook production are studied including page layout and design, desktop publishing, writing, digital photography, graphic art, advertising, and marketing. After school time is required, and space is very limited. High School Publications is a pass/fail course which can be repeated as an elective.

2101 - BUSINESS AND TECHNOLOGY CONCEPTS

Credits: 1
Prerequisites: None
Grade Level: 9, 10, 11, 12

This course is divided into two parts. Part I serves as an introduction to business concepts including economics, marketing, and business management. Business communications and business math are integrated throughout. Part II serves as an introduction to technology concepts. It will further develop previously developed skills in various software applications. The course provides an in-depth exploration of word processing, database, spreadsheet, and graphics programs. Advanced features of Microsoft Office will be covered, supplemented with additional multimedia and graphics programs.

2204 - ACCOUNTING I

Credits: 1
Prerequisites: None
Grade Level: 10, 11, 12

This course is a comprehensive introduction to Financial Accounting, which involves the keeping of financial records in order to determine if a business has made a profit. Various accounting forms are used as the student learns how to record each business transaction. Topics of study in financial accounting include the accounting cycle, forms of business organizations, assets, liabilities, owner's equity, and financial statement preparation and analysis. Examples are drawn from service, merchandising and manufacturing organizations. Students will also be introduced to automated accounting in order to facilitate the processing of data and experience the use of computers in accounting. Students that complete both Accounting I and II with an A average in each will earn 3 hours of dual credit at JALC.

2206 - ACCOUNTING II

Credits: 1
Prerequisites: Accounting I with a grade of C or higher
Grade Level: 11, 12

This advanced, skill-level course builds upon the foundation established in Accounting I. This course focuses on business-record analysis to enable students to develop more knowledge of the principles of accounting for decision making. Greater emphasis is placed on financial statements and accounting records. It is an expanded study of accounting principles as they apply to more complicated types of business organizations such as partnerships and corporations. Simulated business conditions may be provided through the use of practice sets and/or computer applications. This course provides a technical background for college-bound students who plan a business curriculum, as well as those who plan vocational preparation. Students earning less than a "B" in Accounting I may have difficulty in this class. Students completing Accounting I and II with an A average in each will earn 3 hours dual credit at JALC.

2212 – INFORMATION PROCESSING I (DESKTOP PUBLISHING)

Credits: 1/2 (one semester course)
Prerequisites: Business & Technology Concepts Recommended
Grade Level: 10, 11, 12

This is a skill-level course with a major emphasis on the concepts and terminology related to the people, equipment, and procedures of information processing in the work world. It also provides students with the skills and knowledge necessary to function in a highly automated business environment. The Windows operating system will serve as the framework for developing skills in file management and organization, the use of Internet access, and the application of business computer software including the Microsoft Office Suite 2007 for word processing, database management, spreadsheet design, and presentation graphics software, as well as additional available software.

2231 – INFORMATION PROCESSING II (DESKTOP PUBLISHING II)

Credits: 1/2 (one semester course)
Prerequisites: At least a C in Information Processing I
Grade Level: 10, 11, 12

This is a continuation of Information Processing I with a major emphasis on the concepts of layout and design while using desktop publishing software in the work world. It also includes skill development in the use of information processing equipment and the development of business publications such as brochures, business cards, flyers, news releases, and newsletters for a fictitious company during a simulation activity. Documents are often produced for use within CHS. Software that will be utilized includes MS Word, MS Excel, MS Publisher, Adobe PageMaker, Adobe PhotoShop, and Internet Explorer. The Image Editing class is recommended for students enrolling in Desktop Publishing II.

2220 – IMAGE EDITING

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 10, 11, 12

Images do not always come exactly as you wish to use them. You may need to do some cropping, adjust their colors or luminosity, change their size, or modify their content. This course will focus on the use of Adobe Photoshop to edit and enhance digital images. Students will take photos using a digital camera, scan photos, and download images to edit. Edited images may be submitted for use on the CHS and District web site. This course is recommended for students interested in pursuing Desktop Publishing or Web Page Design courses.

2225 – INTERACTIVE MEDIA I

Credits: 1/2 (one semester course)
Prerequisites: Business and Technology Concepts Recommended
Grade Level: 10, 11, 12

This is an advanced level course offering an exploration of interactive computer applications as well as graphics and multimedia software. Students will combine the study of digital photography and editing with digital video, animation, graphics, and multimedia applications in order to develop an awareness and understanding of the technology and equipment used in business and industry in the 21st century.

2226 – INTERACTIVE MEDIA II

Credits: 1/2 (one semester course)
Prerequisites: Interactive Media Recommended
Grade Level: 10, 11, 12

This course is a continuation of Interactive Media I wherein students will continue to explore and become proficient with the various interactive applications and multimedia software. Students will be introduced to additional advanced software as it becomes available. Emphasis will be placed on the production of various projects that meet standards of business and industry.

2232 – WEB PAGE DESIGN I

Credits: 1/2 (one semester course)
Prerequisites: Business & Technology Concepts Recommended
Grade Level: 11, 12 (Space is limited)

Students will learn web searching skills and the basics of web page design: planning and organizing content, applying design principles, creating web pages, and creating/editing graphics. Students will learn and use HTML, Microsoft FrontPage 2003, Adobe PhotoShop, and other programs. Students will have several web site projects to complete. Students will also learn to use a scanner and a digital camera. The Image Editing class is recommended for students enrolling in Web Page Design.

2235– WEB PAGE DESIGN II

Credits: 1/2 (one semester course)
Prerequisites: At least a C in Web Page Design I
Grade Level: 11, 12 (Space is limited)

This second course in Web Page Design will continue to develop the skills necessary to develop and design quality web sites. Students will continue to use advanced features of Microsoft FrontPage as well as HTML and possibly Macromedia Dreamweaver. Dual credit at JALC can be earned for students completing both Web Page Design I and Web Page Design II.

2236– CHS WEB SITE

Credits: 1/2 per semester
Prerequisites: At least a B in Web Page Design I & consent of instructor
Grade Level: 12 (Class limit of 5)

Using the design principles, graphics editing skills, and web page design skills learned during Web Page Design I, students will maintain, create new items for, and revise the CHS web site.

3202 - COOPERATIVE CAREER AND TECHNICAL EDUCATION

Credits: 2
Prerequisites: A sequence of vocational courses in area related to career goal and an overall "C" average and good attendance
Grade Level: 12

Cooperative Vocational Education is a program for seniors who wish to receive on-the-job training in an area related to their career goal. Students will work and learn at a local business or industry for three periods daily. Two credits will be earned for the training at the worksite and a series of independent lessons completed by the student throughout the school year. Interested students should obtain an application from the CVE coordinator, Mrs. Banovz. Acceptance into the program will be based upon (1) prerequisite courses in a related career area; (2) previous attendance & discipline record, (3) interview with the CVE coordinator and Guidance Counselor, and (4) availability of a suitable training site related to one's career goal. Students will be expected to provide their own transportation to and from their training station. During the senior year, students should (1) maintain at least a C average, (2) maintain at least a C average in their related course and the CVE course, and (3) maintain a good attendance record both at school and at work. (You may not miss more than five days per semester.) Students dismissed from the job will receive a failing grade for the semester and immediately return to campus full time.

099 – INTERNSHIPS

Credits: 1/2 per semester
Grade Level: 12

Cartersville High School will enter into agreements with local businesses for student internships. An internship is an unpaid educational work experience for a minimum of two hours per day for one semester. It goes well beyond job shadowing in that a student may try out different aspects of a particular job. Students may be dismissed one period daily for the serving of an internship. One-half credit per semester will be granted. The internship grade reported on a student's transcript will be pass/fail and will not affect that student's grade point average. Employers seeking interns will be screened and required to sign an agreement with CHS. A student and parent will also sign an agreement before entering into an internship. **Students interested in an internship should contact a guidance counselor.**

2214 – INTRODUCTION TO COMPUTER PROGRAMMING (JAL CPS 176)

Credits: 1/2 (one semester course)
Prerequisites: Algebra I (JAL MAT 062)
Grade Level: 11, 12
Fee: Students will be responsible for the cost of the JALC textbook

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This course provides an initial exposure to computers and programming, fostering competence in a high-level language via hands-on experience. Students will be introduced to structured programming methodologies, the syntax and semantics for the language, algorithms, and good programming style guidelines. Students will be expected to complete a variety of programming projects. This is a college level course; taught on a college level along with other college level students. Students completing and passing this course receive ½ credit from Cartersville High School and 4 college credit hours from JALC.

2215 – COMPUTER SCIENCE I (JAL CPS 206)

Credits: 1/2 (one semester course)
Prerequisites: Introduction to Computer Programming (JAL CPS 176)
Grade Level: 11, 12
Fee: Students will be responsible for the cost of the JALC textbook

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This course is the first in a required sequence of courses for majors in computer science and related fields. It provides a study of programming using a modern, object-oriented high-level programming language. Included are discussions of programming constructs (selection, repetition, and sequence) as well as data representation and storage, including arrays, records, objects, and files. Primary emphasis will be given to a disciplined approach to problem solving, algorithm development, program design, testing, and documentation. Check the current John A. Logan class schedule to determine the programming language currently being utilized for this course.

DRIVER'S EDUCATION

150 – DRIVER'S EDUCATION

Credits: 1/2
Prerequisites: Students must have passed eight courses in the previous two semesters.
Grade Level: 9, 10, 11, 12
Fee: \$20.00/year and \$20.00 fee to the state

To high school students, passing their road test often signifies that they have reached a new level of maturity on the road to adulthood. The primary purpose of the driver's training class at Cartersville High School is to increase student involvement in traffic safety; specifically, teaching basic skills, developing the proper driving habits and focusing the attention of the students on traffic safety. The course is composed of thirty - (30) clock hours of classroom with the remainder of the year used for the six hours behind the wheel.

Driver's Education is offered during June for those students turning 15 by the end of classroom instruction. There is a \$20.00 fee to the state and a \$20.00 lab fee to the school. (For students who also complete their driving during the summer, the lab fee is \$50.00.) Included in this fee is the instruction permit and driver's license. Another class will be offered during the school year for those students who are unable to take the summer class or who will turn 15 by the end of classroom instruction. All students taking driver's education must have passed eight (8) classes the two prior semesters.

Note: Students must be passing PE in order to be allowed to drive during their PE classes. Students will not receive a PE grade while driving.

ENGLISH

101 - ENGLISH I (REQUIRED)

Credits: 1
Prerequisites: None
Grade Level: 9

English I consists of the study of both grammar and literature with composition woven into the curriculum. Students read novels, short stories, poetry, and Shakespeare's *Romeo and Juliet*. Units on study skills, listening skills, and speaking skills are included.

1001 - LANGUAGE ARTS SKILLS

Credits: 1 (Credit as an elective only)
Prerequisites: 8th Grade teacher recommendation, ISAT scores & academic record
Grade Level: 9

Language Arts Skills, for ninth graders, is a course where students receive instruction with emphasis on reading comprehension and writing skills. The goal is to assist students toward acquiring a passing score on the PSAE tests during their junior year. In addition, study skills, note taking skills, organizational skills, listening skills, and test taking techniques will also be stressed and utilized in other classes as well as this one. This class **does not** fulfill an English requirement. Students will be evaluated based on EXPLORE test scores and English class grades at the end of the first semester to determine whether they should remain in the Language Arts Skills class second semester.

102 - ENGLISH II (REQUIRED)

Credits: 1
Prerequisites: Students must have passed both semesters of English I. Students who fail either semester are encouraged to seek an alternative program to make up the missing credit. Students cannot enroll in two English courses concurrently.
Grade Level: 10

English II is a study of vocabulary, composition, grammar review, and literature. Students read short stories, poetry, non-fiction, novels, an autobiography, and Shakespeare's *Julius Caesar*. Strong emphasis is placed on composition. A research project in MLA style is required.

103 - ADVANCED ENGLISH II

Credits: 1
Prerequisites: An A or B in English I and/or teacher recommendation
Grade Level: 10

The same material is covered as in English II, plus additional novels. Standards are much higher and higher level thinking skills are emphasized. Research projects are required.

104 - ENGLISH III (REQUIRED)

Credits: 1
Prerequisites: English I and II (Must have passed both semesters of English I and II). Students who fail either semester are encouraged to seek an alternative program to make up the missing credit. Students cannot enroll in two English courses concurrently.
Grade Level: 11

English III is a study of composition, basic English skills, vocabulary and a brief review of grammar. A chronological study of American literature is included. During the second semester, students will review information to prepare for the ACT/PSAE. Students are required to write a research paper in this class.

105 - ADVANCED ENGLISH III

Credits: 1
Prerequisites: A or B in Advanced English II and/or teacher recommendation
Grade Level: 11

The same English III curriculum is supplemented with additional literature. Higher-level thinking skills are emphasized.

106 - ENGLISH IV (REQUIRED)

Credits: 1
Prerequisites: English I, II, and III (Must have passed all semesters of English I, II, III). Students who fail either semester are encouraged to seek an alternative program to make up the missing credit. Students cannot enroll in two English courses concurrently.
Grade Level: 12

English IV literature includes short stories, essays, and poetry. Students are required to keep a journal on assigned readings. A unit on resume/cover letter writing is included. Shakespeare's *Macbeth* is studied. Novels include *Flowers for Algernon*, *Don Quixote*, *The Lone Ranger and Tonto Fistfight in Heaven*, and *Fahrenheit 451*. The book *The Bible as Literature* is studied. Other units include the media and censorship. Students will also have a unit on genealogy.

107 - ADVANCED ENGLISH IV

Credits: 1
Prerequisites: English I, II, and III (An A in English III or an A/B in Advanced English III and/or teacher recommendation)
Grade Level: 12

College English concentrates on the development of college preparation skills, composition, analytical writing, vocabulary, English and world literature, research, and critical thinking.

108 - SPEECH (REQUIRED)

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 12

This class focuses on the study and practice of public speaking. Presentations will be developed to communicate with a wide audience. Technology will be utilized. Students will learn how to develop effective communication skills through verbal and nonverbal codes, and how to prepare for a variety of public speaking situations. Students will learn to select research topics, organize ideas clearly, prepare introductions and conclusions, and select appropriate language techniques. Students will participate in group and individual activities, such as debate, informative, demonstration, and persuasive speeches. Finally, students will develop skills in critical listening and evaluating speeches.

FAMILY AND CONSUMER SCIENCES

8102 – L.I.F.E. (Learning for Independence, Family, and Employment)

Credits: 1/2
Prerequisites: None
Grade Level: 9

NOTE: This course is for students who have NOT previously taken any other Family and Consumer Science class. This course introduces the student to the field of family and consumer sciences. It focuses on the total well being of the person in order to develop a healthy, well-adjusted, self confident, individual, family member and worker. Eight basic units included in the course are: healthful lifestyles, self-esteem, relationships, management, parenting, human development, life situations, and careers. **(NOTE: NO COOKING, NO SEWING)**

8106 - FOODS AND NUTRITION

Credits: 1/2
Prerequisites: None
Grade Level: 9, 10

NOTE: This course is for students who have had NO previous Cooking/Orientation to F&CS/Food Preparation classes. The students will be provided with basic information about food and nutrition that can be used in everyday life. This class will focus on basic cooking techniques that will give the student the background needed to prepare a wide variety of foods; the latest dietary recommendations to help the student make healthy food choices; how to arrange space and use time and energy efficiently to help students manage their personal resources; how safety and sanitation are directly related to health; current trends and technological developments; global concerns; and careers. Students will realize that food and food preparation is at the heart of scientific research.

8108 - CHILD DEVELOPMENT

Credits: 1/2
Prerequisites: None
Grade Level: 10, 11, 12

This course emphasizes learning experiences that help students gain knowledge and understanding of the intellectual, physical, social and emotional development of children from the conception through adolescence. This course focuses on: managing and organizing child development by applying decision-making and goal-setting skills; promoting child development by applying physical, social, intellectual and emotional principles; practicing health and safety standards for children; providing experiences which encourage children to maximize resources; encouraging human relations skills in children; and evaluation family and career changes in relation to impact on children. Information related to careers in childcare will be incorporated in this course.

8203 - PARENTING

Credits: 1/2
Prerequisites: Child Development or teacher approval
Grade Level: 11, 12

This course is designed to help students think through the responsibilities, satisfactions, and stresses of parenthood. Topics include types of parenting situations, guiding children, decision making, health and safety related to parenting, encouraging human relationship skills, community agencies, maximizing resources, teenage parents, and readiness for parenthood.

8204 – ADULT LIVING

Credits: 1/2
Prerequisites: None
Grade Level: 11,12

This course is designed to assist students in achieving life satisfaction through responsible participation as adults in the home, community, and work place. Emphasis is placed on personality development, maturity, values and goals, decision making strategies for life plans, priorities, changing lifestyles, stress management, effective communication and using personal community resources.

8201 - LIVING ENVIRONMENTS (Interior Decorating)

Credit: 1/2
Prerequisites: None
Grade Level: 11, 12

This class focuses on the skills and knowledge needed to make decisions for selecting and managing living environments that will fit individual needs, family life-styles, and career patterns. The basic principles of management as related to environments will be emphasized. Learning experiences will include selecting housing and furnishings to: suit personal taste, meet aesthetic values, recognize psychological effects on the environment, evaluate living space for safety and sanitation, and promote energy conservation in housing. Students will design and present a design board. No miniature houses will be built.

8202 - CAREER EXPLORATIONS/RESOURCE MANAGEMENT

Credit: 1/2
Prerequisites: None
Grade Level: 11, 12

Students will identify career decisions that need to be made, use on-line career programs to identify their career interests and describe education and training options related to career preparation. The emphasis in this course includes learning experiences and skills needed for decision-making and goal setting to contribute to an improved quality of life. Use of resources, consumer rights and responsibilities in the marketplace, financial management and utilization of information are some of the components included in this course. Specific units taught will include budgeting, investing, taxation, meeting insurance needs, writing cover letters, filling out job applications, doing a career interview, participating in a job shadow, and others.

8107 – CLOTHING AND TEXTILES (Sewing Class)

Credit: 1/2
Prerequisites: None
Grade Level: 9, 10, 11, 12

This course provides students with the opportunity to develop a knowledge and understanding of textiles, fashions, fabrics, and sewn products. The course content centers around the construction of sewn items; the development of color, line and design principles; wardrobe planning; clothing selection; and construction of home decorator items. Information and experiences provide students with an understanding of current trends and careers in the fashion industry.

8210 – EARLY CHILDHOOD PRACTICUM

Credits: 2/year
Prerequisites: Child Development
Grade Level: 12

This course is designed for seniors interested in preparing for a career in early childhood education, early childhood special education, or childcare. Interested students must apply for this practicum experience in which they will be placed at Williamson County Early Childhood Cooperative in Cartersville for 3 periods each day. Selection criteria will include student grades, attendance record, and disciplinary record. If selected, students must submit to criminal/sex offender background checks and participate in a training session prior to working in classrooms. Additionally, interns will participate in *Parents as Teachers (PAT)* training with a Family Educator and attend CPR/first aid training. Other intern responsibilities will include completing a daily timesheet, assisting with Pre-K screenings, assisting with classroom websites, and working with young children. Students will also attend a monthly support meeting for interns and a monthly job performance meeting with their assigned Pre-K teacher.

FINE ARTS

200 – INTRODUCTION TO GUITAR

Credits: 1/2
Prerequisites: Director's Approval
Grade Level: 11, 12

Students will develop a greater awareness of their instrument and musicianship through the study of acoustic guitar. This course will be an introduction to the basic music fundamentals and appreciation of guitar music using folk, pop, classical and jazz tunes. Students will also be involved in composing and performing original songs and small-ensemble playing. All students are expected to display and expand their performance skills on guitar through occasional playing exams. This methods course will cover a complete set of technical and musical abilities on various levels; both the beginning and advanced player can benefit from it. In addition to guitar music, we will also learn skills like score reading, playing by ear, ear training, guitar tuning, on-stage performance and guitar maintenance (i.e. - changing strings). Students will need to provide their own acoustic instruments.

201 - CHORUS

Credits: 1
Prerequisites: Student must have demonstrated a positive contribution to the choral program as recommended by the teacher.
Grade Level: 9, 10, 11, 12

First semester will include testing of individual voices for placement within the chorus. This will take place during the first week of classes. There are various individual singing and written tests that will also be given throughout the semester. Chorus members may audition for Jazz Choir, IMEA District Music Festival, and the Quad State Music Festival at Murray State University. All chorus members are required to perform at the annual Christmas concert.

Second semester chorus members are required to participate in the Annual Valentine Banquet for Senior Citizens, Spring Musical, and Spring Concert. Students will also have the opportunity to prepare solos and small ensembles for IHSA contest the first week in March. All Jazz Choir members will sing at the High School Baccalaureate, and Senior Chorus members will sing at the High School Commencement Ceremony during Senior Graduation.

202 - BAND

Credits: 1
Prerequisites: Prior band experience is recommended but not required
Grade Level: 9, 10, 11, 12
Lab Fee: A few nominal fees should be expected throughout the year. Personal instruments and accessories are to be provided by the student, with some exceptions.

Band is an all-encompassing title for many groups. In the fall term, band members participate in the Marching Lions and the Concert Band. The Marching Lions perform at home football games and selected field show and parade competitions, which is a requirement of the class. The Concert Band performs a Christmas concert and students also have the opportunity to participate in the IMEA festival. The spring term stresses music in the Concert Band. Students are also required to perform at all home basketball games with the Pep Band. During this time, students are encouraged to participate in the IHSMA solo and ensemble contest. The full Concert Band participates in the IHSA organizational contest and performs a spring concert at the end of the year. Selected band members perform for the spring musical with the high school chorus. All students are strongly encouraged to enhance their musical experience by observing/performing with area ensembles (e.g., SIUC or John A. Logan) and/or private instruction.

203 - ART I

Credits: 1
Prerequisites: None
Grade Level: 9, 10, 11, 12

Art I is for students who are interested in a wide variety of art materials and subject matter. Bi-weekly sketchbook assignments are required at level I. Basic fundamentals of painting, drawing, and pen and ink are covered. The course involves some purchase of materials on the part of the student. Students must maintain a B average in order to advance to Art II. Teacher recommendation is also required.

204 - ART II

Credits: 1
Prerequisites: Art I with a B average and teacher recommendation
Grade Level: 10, 11, 12

Art II is for students who have successfully completed Art I. Projects focus on in-depth approaches to drawing and painting of a higher quality. Bi-weekly sketchbook assignments are required at level II. Work is displayed in the schools, community, and art shows. Students purchase some materials and all mats and frames for their better works of art. Students must maintain a B average in order to advance to Art III. Teacher recommendation is also required.

205 - ART III

Credits: 1
Prerequisites: Art I and II with a B average and teacher recommendation
Grade Level: 11, 12

Art III is combined with Art II and will have similar activities. Students who feel confident may choose other materials with which to work. Bi-weekly sketchbook assignments are required at level III. Many opportunities are offered for competition in area, state, and national art shows. Additional art supplies may need to be purchased. Students must maintain a B average in order to advance to Art IV. Teacher recommendation is also required.

206 - ART IV

Credits: 1
Prerequisites: Art I, II, and III with a B average and teacher recommendation
Grade Level: 12

Art IV is an independent study course. Advanced techniques are offered. Art portfolios will be created for presentation. Each student may need to purchase his/her own supplies.

9104 – GRAPHICS DESIGN (Graphics Design I (GRD 110) & Drawing (Art 180) (Graphics Design II (GRD 120) & Photography (Art 296))

Credits: 3 (1 ½ per semester)
Prerequisites: Art I & Administrative Approval
Grade Level: 12
Lab Fee: Students are responsible for books and any lab fees associated with these classes.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is computed into student's grade point average and class rank.

Students requesting the above courses in this program must have a good academic record, good attendance and a good discipline record. Graphics Design I is a study of basic principles related to business and the advertising industry. Individual projects will include problems in typography, logo designs, corporate identity systems and business forms. Art 180 is a basic course stressing understanding of visual perception, drawing media and drawing. Graphics Design II is the study of the fundamentals of advertising design. Students continue with advanced studies of design principles, research ad formats, layout, and create advertising and editorial designs for magazines and books. Art 296 is an introduction to black and white and color photography as an art medium, including the basics of camera and darkroom techniques and relevant aesthetic, historic and critical issues. Students successfully completing the above program will earn 16 hours of college credit toward an Associates Degree in Applied Science in the Graphics Design program.

FOREIGN LANGUAGE

214 - SPANISH I

Credits: 1
Prerequisites: C Average in English
Grade Level: 9, 10, 11, 12

Spanish I is an introductory course to the Spanish language and culture with an emphasis on listening to and speaking Spanish. Students learn the basic grammar essentials of the language and introduce students to the culture of the Hispanic world. Suggestions are made for activities that encourage students to use their language skills in and beyond the classroom. Activities may include customs and festivities celebrated in Spanish-speaking countries, Foreign Language Day at S.I.U., and Global Fest.

215 - SPANISH II

Credits: 1
Prerequisites: Spanish I or equivalent with a grade of C+ or better recommended
Grade Level: 10, 11, 12

Spanish II is a continuation of Spanish I. Reinforcement of the main points presented in Spanish I with an emphasis on advanced grammar and additional authentic listening selections will be offered. Focus is given to providing students with the skills they need to create language for communication. Students will further their knowledge and understanding of the written and spoken language on a variety of topics. Culture is integrated through several activities and opportunities such as Foreign Language Day at SIU, Spanish-style festivities, and Global Fest.

216 - JALC SPN 101

Credits: 1/2 (one semester)
Prerequisites: Spanish I & II (C+ or better recommended)
Grade Level: 11, 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This course is designed to assist the students to acquire the basic skills needed to understand, speak, read, and write elementary Spanish. They should gain insight into the various cultures of Spanish speaking people, and in so doing; improve their understanding of their own culture.

Different activities and techniques will be used to achieve the course objectives. Class activities will consist of discussions based on dialogues and conversations provided in the textbook. The grammatical structures of the language will be studied using repetition drills, memorization drills, mimicry, and substitution drills. This is an elementary Spanish course taught on a college level along with other college level students. Students completing and passing this course receive ½ credit from Carterville High School and 4 college credit hours from JALC.

217 - JALC SPN 102

Credits: 1/2 (one semester)
Prerequisites: JALC SPN 101
Grade Level: 11, 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This course is designed to assist the students to acquire the basic skills needed to understand, speak, read, and write elementary Spanish. They should gain insight into the various cultures of Spanish speaking people, and in so doing; improve their understanding of their own culture.

Different activities and techniques will be used to achieve the course objectives. Class activities will consist of discussions based on dialogues and conversations provided in the textbook. The grammatical structures of the language will be studied using repetition drills, memorization drills, mimicry, and substitution drills. This is an elementary Spanish course taught on a college level along with other college level students. Students completing and passing this course receive ½ credit from Carterville High School and 4 college credit hours from JALC.

218 – JALC SPN 201

Credits: 1/2 (one semester)
Prerequisites: JALC SPN 102
Grade Level: 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This course is designed to assist the students to acquire the basic skills needed to understand, speak, read, and write Spanish. They should gain insight into the various cultures of Spanish speaking people, and in so doing; improve their understanding of their own culture.

Different activities and techniques will be used to achieve the course objectives. Class activities will consist of discussions based on dialogues and conversations provided in the textbook. The grammatical structures of the language will be studied using repetition drills, memorization drills, mimicry, and substitution drills. This is an Spanish course taught on a college level along with other college level students. Students completing and passing this course receive ½ credit from Carterville High School and 4 college credit hours from JALC.

219 – JALC SPN 202

Credits: 1/2 (one semester)
Prerequisites: JALC SPN 201
Grade Level: 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This course is designed to assist the students to acquire the basic skills needed to understand, speak, read, and write Spanish. They should gain insight into the various cultures of Spanish speaking people, and in so doing; improve their understanding of their own culture. Different activities and techniques will be used to achieve the course objectives. Class activities will consist of discussions based on dialogues and conversations provided in the textbook. The grammatical structures of the language will be studied using repetition drills, memorization drills, mimicry, and substitution drills. This is an Spanish course taught on a college level along with other college level students. Students completing and passing this course receive ½ credit from Carterville High School and 4 college credit hours from JALC.

212 - JALC FRE 101

Credits: 1/2 (one semester)
Prerequisites: B average in English
Grade Level: 11, 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

The emphasis in this course is on conversation with vocabulary building, grammar rules, and pronunciation practice. Language laboratory is required. Students completing and passing this course receive ½ credit at Carterville High School and 4 credit hours from JALC. .

213 - JALC FRE 102

Credits: 1/2 (one semester)
Prerequisites: JAL FRENCH 101
Grade Level: 11, 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This is a continuation of French 101 with oral practice of basic conversation and reading of French literature. Language laboratory is required. Students completing and passing this course receive ½ credit at Carterville High School and 4 credit hours from JALC.

220 – JALC FRE 201

Credits: 1/2 (one semester)
Prerequisites: JAL FRENCH 102
Grade Level: 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

This intermediate French I class is review and application of essential principles of French grammar structure and training in idiomatic usage through oral and written exercises; intensive practice of spoken language; reading of French literature with emphasis on French culture and civilization. Language laboratory is required. Students completing and passing this course receive ½ credit at Carterville High School and 4 credit hours from JALC.

221 – JAL FRE 202

Credits: 1/2 (one semester)
Prerequisites: JAL FRENCH 201
Grade Level: 12
Lab Fee: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

It is a continuation of FRN 201with emphasis on refining conversational skills and rapid reading of representative French prose. Language laboratory is required. Students completing and passing this course receive ½ credit at Carterville High School and 4 credit hours from JALC.

INDUSTRIAL TECHNOLOGY

9100 – FOUNDATIONS OF TECHNOLOGY I

Credits: 1/2
Prerequisites: Algebra I (or current enrollment in Algebra I)
Grade Level: 9, 10, 11, 12

This new one-semester course is designed to develop an interest and awareness in a broad range of technology through the use of computer-driven modules. Students will complete 2 weeks of instruction on 7 different modules. The areas of technology that students can choose from are: mechanisms, animation, space technology, electricity, digital sound & photography, biomedical, navigation & GPS, electronic communications, pneumatics, materials & processes, robotics & industrial control, and research & design. Students learn in teams and also in group, hands-on lab work.

9101 – FOUNDATIONS OF TECHNOLOGY II

Credits: 1/2
Prerequisites: Algebra I and Tech. Exploration I
Grade Level: 10, 11, 12

This semester course is designed to further focus an interest in a broad range of technology through the use of computer-driven modules. Students completing Technology Exploration I are invited back to complete a more in-depth instruction on several modules of their choosing. Areas of technology are: mechanisms, animation, space, electricity, digital sound & photography, biomedical, navigation & GPS, electronic communications, pneumatics, materials & processes, robotics & industrial control, and research & design. Students will continue to learn in teams and group hands-on lab work.

9106 - DRAFTING 1A

Credits: 1
Prerequisites: None
Grade Level: 10, 11, 12

This course is an introduction to the principles and procedures of tools, materials, equipment, techniques, freehand sketching, projections, object position, single views, multiviews, perspectives, orthographic, isometric, oblique and introduction to computer drafting. This course also expands to the areas of geometrical construction, sectionals, and auxiliary drawings. The course emphasizes more material and detail learning experiences.

9224 - COMPUTER-AIDED DRAFTING I

Credits: 1
Prerequisites: Drafting IA
Grade Level: 11, 12

This course is designed to provide students interested in a career in drafting with some information and practical experience needed for the development of job-related competencies. The course content included planning and organizing activities, researching information, coordinating work and performing other general office procedures, preparing various sketches (freehand, isometric, orthographic, pictorial, oblique), performing basic layouts, detailing drawings such as sectional and isometric view, using various reproduction techniques and using CAD command and isometric view, using various reproduction techniques and using CAD command processes to produce CAD drawing in mechanical and architectural projects. Students completing this class with a letter grade of B or better will earn 3 hours of dual credit at JALC.

9225 - COMPUTER-AIDED DRAFTING II

Credits: 1
Prerequisites: Drafting/Computer-Aided Drafting I
Grade Level: 12

This course continues the learning begun in Drafting/Computer-Aided Drafting I and emphasizes the area of performing presentation techniques such as various graphs, producing architectural drawings, drawing light commercial building plans, interpreting codes and constructing structural working drawings, producing mechanical and electrical and electrical working drawings, using and producing CAD drawings in mechanical and architectural projects. Students completing CAD I and II with a B or better earn 3 hours of dual credit at JALC.

9107 – CONSTRUCTION ORIENTATION

Credits: 1/2
Prerequisites: None
Grade Level: 9, 10, 11, 12

This semester course is designed for the student who desires to learn beginning and intermediate skills in the area of woodworking. Units of instruction will emphasize use of power and hand tools, joinery, safety, finishing, and wood products. Learning experience will be gained from hands-on activities and the completion of a course appropriate woodworking project.

9108 – CONSTRUCTION I

Credits: 1/2
Prerequisites: Wood I
Grade Level: 10, 11, 12

This course is designed for the student who desires to learn intermediate and advanced skills in the area of woodworking. Units of instruction will emphasize use of power and hand tools, advanced joinery, safety, finishing, and wood products. Learning experience will be gained from hands-on activities and the completion of a course appropriate woodworking project.

9109 – BUILDING TRADES

Credits: 1
Prerequisites: Woods II and Teacher Recommendation
Grade Level: 11, 12

This course is designed for the student who is highly motivated, self-directed and desires to learn advanced skills in the area of woodworking and cabinet making. Introduction to building will be done through the building of a playhouse and/or scale home. Units of instruction will emphasize use of power and hand tools, advanced joinery, safety, finishing, wood products, machine maintenance, and job place safety. Learning experience will be gained from hands-on activities, field trips and the completion of a cabinet of the student's choosing.

MATHEMATICS

401 - ALGEBRA I+

Credits: 1
Prerequisites: Teacher Recommendation
Grade Level: 9

The purpose of this course is to develop the algebraic concepts and processes that can be used to solve a variety of real world and mathematical problems. More time is spent strengthening skills and reviewing more difficult concepts. This year long course will cover properties and operations of rational numbers, solving and graphing linear equalities, and solving and graphing systems of linear equations and inequalities. The content will be presented by the teacher and supplemented with a technology component. Our research has shown this approach brings significant gains in students that had experienced achievement difficulties in the past.

402 - ALGEBRA I

Credits: 1
Prerequisites: None
Grade Level: 9

Algebra I is the basic course for all higher courses in mathematics. It describes the system of real numbers and their properties. All operations are performed on positive and negative numbers. The student learns to factor and use its applications in problem solving; to solve linear, fractional, and quadratic equations; and to graph functions and relations. Emphasis is placed on topics from geometry such as surface area and volume of solids. Students must work a number of problems each day to develop mastery of the concepts.

407 – GEOMETRY

Credits: 1
Prerequisites: Algebra I or Algebra I+
Grade Level: 9, 10, 11, 12

This course will give students an opportunity to sequentially study geometry. Students will strengthen their Algebra I skills by applying algebra to geometric settings. Students will study in depth the properties of parallel lines, a variety of polygons, and circles, including area and volume formulas. This course will provide students with knowledge to help prepare them for state and local tests. Incoming freshmen that had Algebra I in the eighth grade should take this class or Advanced Geometry.

408 – ADVANCED GEOMETRY

Credits: 1
Prerequisites: Algebra I and Teacher Recommendation
Grade Level: 9, 10 with an A for both semesters of Algebra I or teacher recommendation

This is an accelerated section of geometry. More chapters will be covered than in regular geometry classes. This section is highly recommended for students who plan to take calculus. Students will be offered more challenging problems, do more problem solving, do proofs of theorems and exercises, and be expected to excel in more difficult concepts of geometry. Real-life applications will be stressed where possible and examples that apply to various tests (state, achievement, SAT and ACT) will be studied. A student earning a 70% or below after nine weeks will be enrolled in a regular geometry course. The Advanced Geometry grade will be applied to the Geometry semester grade.

405 – INTEGRATED ALGEBRA AND GEOMETRY

Credits: 1
Prerequisites: Algebra I+, Geometry, and PLAN Test/Teacher Recommendation
Grade Level: 11

This course is designed to review and study linear and quadratic equations from Algebra I as well as Geometry topics more in depth. Additional components include computerized WIN curriculum and ACT test preparation materials. This new course will address the curriculum and learning needs of some third year math students that would not have normally taken the third year Algebra II due to its complexity. Completion of this course will prepare students for Contemporary Math the following year.

403 - ALGEBRA II

Credits: 1
Prerequisites: Algebra I and Geometry
Grade Level: 10, 11, 12

Algebra II is a continuation of Algebra I. Concepts studied in Algebra I are reviewed and studied in greater detail. This course should help students in chemistry and physics. The students learn to work with negative exponents, work with radicals, solve quadratic equations and systems, write equations of lines given certain conditions, work with complex numbers, and use trigonometric functions. Geometry is incorporated throughout the book. Students must work a number of problems each day to develop a mastery of concepts. A topic is never left but continues to appear in future homework sets and tests. Considerable ACT preparation will be offered. This course is recommended for juniors.

404 - ADVANCED ALGEBRA II

Credits: 1
Prerequisites: Algebra I, Geometry, and Teacher Recommendation
Grade Level: 10, 11 with Teacher Recommendation

This is an accelerated section of Algebra II. More lessons will be covered than in regular Algebra II classes. Although there is less ACT preparation in this class than in Algebra II, this class will offer considerably more preparation for Pre-Calculus. Enrichment topics and problem solving will be studied. This section is for students who plan to take Calculus their senior year. A student earning a 70% or below after nine weeks will be enrolled in a regular Algebra II course. The Advanced Algebra II grade will be applied to the Algebra II semester grade.

409 - PRE-CALCULUS

Credits: 1
Prerequisites: Algebra I, Geometry, & Algebra II
Grade Level: 11, 12

This course is designed to ready students for Calculus their senior year or for those intending to major in areas requiring higher-level math than College Algebra. The first semester of pre-calculus covers linear functions, quadratic functions, polynomial functions, inequality functions, complex numbers, exponential functions, logarithms, and matrices. The second semester covers trigonometric functions, trigonometric equations and applications, triangle trigonometry, trigonometric identities, sequences, series, and limits, along with a considerable amount of ACT preparation. Students opting to take the course need strong algebra skills and a strong work ethic.

410 - CALCULUS

Credits: 1
Prerequisites: Pre-calculus
Grade Level: 12

This class is equivalent to at least the first semester of college calculus. Topics studied are formal differentiation, integration, rate of change of functions, related rates, applications of derivatives, applications of integrals, logarithmic functions, exponential functions, and advanced integration techniques. Students completing this class with a B or better have the opportunity to earn 5 hours of dual credit at JALC. Students must pass the JALC math test to earn the credit.

411 – INTRODUCTION TO CONTEMPORARY MATHEMATICS

Credits: 1
Prerequisites: Successful completion of 3 math credits
Grade Level: 12

This course is designed for college bound students that are going into areas that do not require a large amount of mathematics, such as business, education, social studies, etc. Topics that will be studied are logic, set theory, counting techniques, probability and statistics, linear programming, and matrices. A review of functions, graphs, problem solving using equations, and the number system will be part of the class. The emphasis will be on reasoning and solving real-life problems.

412 – AP CALCULUS

Credits: 1
Prerequisites: Calculus (Must have taken at CHS) with a grade of B or better and consent of instructor
Grade Level: 12

Students will explore real life models involving calculus (including related rates, parametric equations, position functions and infinite series). Independent research and projects will be required. Students will be testing and preparing for the AB Calculus exam which is to be taken for course completion.

PHYSICAL EDUCATION

501 – TRADITIONAL PHYSICAL EDUCATION

Credits: 1
Prerequisites: None
Grade Level: 9, 10, 11, 12

Physical Education is offered to all levels of students to enhance their knowledge of individual and team sports, physical fitness and dance, and a variety of activities to promote a lifetime of wellness. Grades are based on participation, attendance, and written exams. Some of the units to be covered during the course of the year and subject to change every two to four weeks include archery, golf, pickleball, badminton, flag football, basketball, volleyball, fitness, aerobics, hockey, soccer, dance, bowling, and roller skating. Bowling and roller-skating will require an extra fee for the rental of equipment. These activities are done in alternating years so as not to put too much of a financial strain on the students and parents.

Note: Students must be passing PE in order to be allowed to drive during their PE classes. Students will not receive a PE grade while driving.

503 – STRENGTH AND CONDITIONING

Credits: 1
Prerequisites: None
Grade Level: 10, 11, 12

This class will be offered to sophomore, junior, and senior students who wish to improve their strength, flexibility, speed and conditioning, and overall agility. Students will develop skills, knowledge, attitude, and conditions important to proper weight training and develop and implement an individualized weight-training program. This class emphasizes physical development and improvement through weight training, aerobic exercise, plyometric exercise, and a wide variety of sport-specific training techniques. Classes will concentrate on fitness concepts and developing personal fitness goals addressing the health-related fitness components of flexibility, muscular strength, muscular endurance, cardiovascular endurance, and body composition. In addition to the physical training aspect, students will learn team-building skills, basic nutrition, and anatomy and physiology of exercise. **Note: Students must be passing PE in order to be allowed to drive during their PE classes. Students will not receive a PE grade while driving.**

HEALTH

504 – HEALTH (REQUIRED)

Credits: 1/2 (one semester)
Prerequisites: None
Grade Level: 9

Today's headlines are almost always ones dealing with health issues. Whether they deal with new treatments for terminal illnesses such as cancers and heart disease or with food substitutes to lower fat and cholesterol, all are important to one's health. Many of the health problems associated with aging adults can be deterred with the right education and application of that knowledge to insure a long and healthy lifetime. Some of the areas to be covered, but not limited to, include drug and alcohol abuse, AIDS and sexually transmitted diseases, nutrition and eating disorders, and disease prevention and control.

SCIENCE

602 – INTRODUCTION TO PHYSICS

Credits: 1
Prerequisites: This course is for students who have successfully completed Pre-Algebra in 8th grade.
Grade Level: 9

The aim of the required course is to present basic scientific laws and principles, which, in our scientific age, should be familiar to all students regardless of their educational objectives. Even the non-scientist needs to know the difference between a theory and a law; become aware of the uncertainties in science; how a scientist thinks and works; and something about the philosophy, history, and social implications for the scientist's work. In order to accomplish this aim, the student must learn and analyze large numbers of carefully selected facts about chemistry and physics. In agreement with this philosophy, Introduction to Physics has been selected as the only required science course at Cartersville High School. Students will also participate in labs to experience science with a hands-on approach. Some of the specific areas studied include matter, energy, motion, metric metrology, heat, light, sound, work, electricity, magnetism, nuclear energy, gravity, atomic structure, chemical reactions and basic equation writing.

603 – ADVANCED INTRODUCTION TO PHYSICS

Credits: 1
Prerequisites: This course is for students who have successfully completed Algebra I in 8th grade.
Grade Level: 9

This is a challenging lab-oriented course that introduces students to the physical and chemical nature of matter and energy. Emphasis will be on lab experiences and mathematics. This course is appropriate for students who plan to take three or more science courses or have an interest in a career in science or engineering. Some of the specific areas studied include matter, energy, motion, heat, light, sound, work, electricity, magnetism, nuclear energy, gravity, relativity, quantum physics, atomic structure, chemical reactions and basic equation writing.

604 - BIOLOGY I

Credits: 1
Prerequisites: Physical Science or Conceptual Physics
Grade Level: 10, 11, 12

Biology is the study of life and the processes that enable it to promote itself. It is the study of the living condition, how it came to be, and how it changes. During the course, the student learns how cells, the building blocks of life, carry on processes essential for life, such as growth, respiration, digestion, division, and synthesis. Environmental relationships such as food chains, food webs, food cycles, biochemical cycles, and symbiosis are studied so the student can understand and appreciate his/her position as a living organism on this planet. The continuity of life is understood and similarities in many life forms can be seen in the dissection and live observations of multiple organisms. The information gathered from these activities helps the student to recognize his/her own structure, function, and relationships to other living things. Students will develop skills in scientific method, observation, and microscopic technique.

608 - ADVANCED BIOLOGY I

Credits: 1
Prerequisites: Grade of B or better in Physical Science or grade of C or better in Conceptual Physics
Grade Level: 10 (11, 12 only in case of transfer student with appropriate prerequisites)

This course will cover the Biology I curriculum at an advanced pace and in more detail. Emphasis will be placed on molecular interactions that result in the processes carried out by all organisms. In addition to the material covered in Biology I, students will participate in laboratory activities that demonstrate the molecular nature of life including DNA extraction, gel electrophoresis, and plasmid transformation. Students will design and execute experiments that will demonstrate the nature of life. This course is appropriate for students who anticipate a career in science or health-related fields, and desire to participate in a more challenging course.

609 – ECOLOGY

Credits: 1/2
Prerequisites: Biology I
Grade Level: 11, 12
Lab Fee: None

Ecology is the study of relationships and interactions among organisms and their environments. During this course the student learns principles of ecology, relationships of communities and biomes, population biology, and biological diversity. Conservation will be discussed along with other current issues regarding ecology. This course includes many lab activities, and is a one-semester course.

610 – ZOOLOGY

Credits: 1/2
Prerequisites: Biology I
Grade Level: 11, 12
Lab Fee: None

Zoology is the study of the animal kingdom. In this course, students will become familiar with invertebrates and vertebrates. Students will learn about fish, birds, reptiles, amphibians, and mammals. Students will also participate in dissections of various animals throughout the course. This is a one-semester course.

605 - ANATOMY AND PHYSIOLOGY (BIOLOGY II)

Credits: 1
Prerequisites: Grade of B in Biology I and recommendation of Biology I teacher
Grade Level: 11, 12
NOTE: Students with a grade of A or B in Biology I will be given priority.

Biology II is the study of human anatomy and physiology. This course is designed for students aspiring to work in various health care fields. Students will learn topics such as medical terminology and will also become familiar with the body systems in detail. These systems include the skeletal system, muscular system, circulatory system, endocrine system, respiratory system, integumentary system, and reproductive system. Various dissections will be completed in this class.

606 - CHEMISTRY

Credits: 1
Prerequisites: Two years of science
Grade Level: 11, 12

The aim of the introductory course in Chemistry is to present a framework of basic chemical laws and principles which should be familiar to all students, regardless of their educational objectives. A knowledge of the laws, principles, and concepts of theoretical chemistry and the facts of traditional descriptive chemistry discussed will help students to understand ordinary chemical phenomena which they encounter in their every day activities. The class will also help students appreciate the role of the chemist and chemical industry in the highly technological society. Frequent laboratory experiments are designed to expand the students' knowledge of the material. The emphasis of this class is inorganic chemistry, the scientific method, and safe laboratory procedures. Students who anticipate a career in a science-related field should take this course during 11th grade in order to allow for more science course options in their senior year.

607 - CHEMISTRY II

Credits: 1
Prerequisites: Recommended B average in Chemistry I
Grade Level: 12

Chemistry II is designed to provide the student with an understanding of the advanced concepts of solutions, chemical equilibrium, solubility, precipitation, acids, bases, oxidation, reduction, electrochemistry, rates of reactions, thermodynamics and organic chemistry. The student is also introduced to advanced laboratory skills. Optional units that may be presented include environmental and biochemical chemistry. This course gives the student who has passed Chemistry I the opportunity to apply the skills and knowledge acquired to more advanced material. This class is recommended for students who wish to continue their study of Chemistry in order to keep their skills sharp for college.

9226 - PRINCIPLES OF TECHNOLOGY

Credits: 1
Prerequisites: None
Grade Level: 11, 12

This course provides learning experiences related to the principles that underlie today's high technology: force, work, rate, resistance, energy, power, and force transformers. The course deals with these principles as they apply in each of the four kinds of systems that make up both the simplest and the most complex technological devices and equipment: mechanical systems, fluid systems, electrical systems and thermal systems. Learning experiences are designed to allow the student to acquire knowledge and skills that are transferable to postsecondary technical programs.

608 – COLLEGE PHYSICS I (JALC PHY 155)

Credits: 1/2 (one semester)
Prerequisites: Algebra I, Algebra II, and Pre-calculus
Grade Level: 11, 12
Lab Fee: Students are responsible for books and any lab fees associated with this class

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

It is an introduction to physics. The course with laboratory will cover classical mechanics and topics chosen from heat, sound, and materials science. This is the first in a non-calculus sequence for science, mathematics, pre-med, chemistry, and other majors requiring college physics. This is a college level course; taught on a college level, along with other college students. Students completing and passing this course will receive ½ credit at CHS 5 college credit hours at JALC.

609 – COLLEGE PHYSICS II (JALC PHY 156)

Credits: 1/2 (one semester)
Prerequisites: College Physics I
Grade Level: 11, 12
Fees: Students are responsible for books and any lab fees associated with this class.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is not computed into student's grade point average or class rank.

It is a continuation of PHY 155. The course with laboratory will cover electricity and magnetism along with topics selected from optics and modern physics. This is a college level course; taught on a college level, along with other college students. Students completing and passing this course receive ½ credit at CHS and 5 college credit hours at JALC.

SOCIAL STUDIES

806 - U.S. GOVERNMENT (REQUIRED)

Credits: 1/2 (one semester)
Prerequisites: None
Grade Level: 9

Students will spend the first nine weeks comparing and contrasting various political systems of the world, analyzing the political origins of American government and identifying the basic principles of our Constitution. The second nine weeks will be devoted to an in-depth study of the American Constitution. Special attention will be devoted to analysis of the first three Articles of the Constitution and their significance on the structure and daily operations of our government. The final portion of the class will be reserved for an overview of our state government, focusing on state officials and structure of the state Constitution.

809 - GEOGRAPHY/ECONOMICS (REQUIRED)

Credits: 1/2 (one semester)
Prerequisites: None
Grade Level: 9

The geography portion of the class will require students to gain an understanding of the themes of geography, map-making, geographic features and weather patterns of the Earth. In addition, students will be made aware of various continental features, global cultures and problems that exist in the world today. The economics portion of the class will focus on comparing and contrasting various economic systems of the world and the interdependency of the global economy. Students will also be made aware of key economic concepts pertaining, but not limited to: scarcity, factors of production, business cycles, taxation, and fiscal and monetary policy.

111 - HUMANITIES

Credits: 1/2 (one semester)
Prerequisites: None
Grade Level: 11, 12

Humanities is the study of art, music, and ideas of Western Civilization beginning with the ancient Egyptians. Several hands-on projects in sculpture, hieroglyphics, watercolors, and drawing will be completed.

801 - U.S. HISTORY (REQUIRED)

Credits: 1
Prerequisites: None
Grade Level: 11

This course begins with a unit on the Constitutional Period and its effects. The rest of the year concentrates on Reconstruction to the present. Historical events are taught within the context of the philosophy of the United States, how this philosophy has developed, the context of world events, and our place in them. Where possible, the present is used to show how early events and governmental actions have led to our current position. Memorization of the Gettysburg Address may be required.

802 - ADVANCED U.S. HISTORY

Credits: 1
Prerequisites: Minimum of 4.0 GPA or consent of instructor
Grade Level: 11

Advanced U.S. History is a survey course beginning with the pre-colonial period and concluding with the present. A college-level textbook and other higher level supporting materials are used. As in the regular U.S. History course, historical events are taught within the context of the philosophy of the United States, the development of that philosophy, and our place relating to world events. Memorization of the Gettysburg Address may be required. The advanced course is designed to prepare students for the AP Exam that is given by the College Board in May of each year. Taking the College Board AP Exam is not a course requirement.

803 - ILLINOIS HISTORY

Credits: 1/2 (one semester)
Prerequisites: None
Grade Level: 11, 12

Illinois History is a one semester course focusing on state history from the time of the first inhabitants through modern times, state geography, map skills, and local history.

804 - WORLD STUDIES (REQUIRED)

Credits: 1
Prerequisites: None
Grade Level; 10

Enrollment in this course will introduce students to a multitude of historical events and movements. The study begins by examining the early civilizations of Greece and Rome, and it culminates with a study of World War I, World War II, and the Cold War. In between, students will survey such topics as: Medieval Europe, the Renaissance, the Enlightenment, and Industrialization. Current Events and issues will be integrated throughout to display the impact of history on our current society. This is a fast-paced course which covers a large amount of information.

808 - PSYCHOLOGY

Credits: 1/2 (1 semester course)
Prerequisites: None
Grade Level: 11, 12

Psychology is the study of behavior. Topics covered in the class include, but are not limited to, the history of psychology, jobs in the field, the life span, the consciousness, personality, stress, and psychological disorders. Papers will be written, the final paper in APA style.

805 - NATIONAL ISSUES (Not offered 2010/2011)

Credits: 1/2 (one semester class)
Prerequisites: None
Grade level: 11, 12

Current events is the background of the course. Newspapers and magazines are used in lieu of textbooks.

807 - PRACTICAL LAW (Not offered 2010/2011)

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 12

Practical Law is an overview of the legal system in the United States with special emphasis on the Illinois statutes. This includes juvenile law, traffic offenses, drug-related crimes, consumer fraud, and family law. A mock trial, field trips to the county court house and speakers from the local community are methods used in this class.

810 – SOCIOLOGY (Not offered 2010/2011)

Credits: 1/2 (one semester)
Prerequisites: None
Grade Level: 11, 12

Sociology is a study of the sociological perspectives on human behavior, the structure and processes involved in social relationships, social stratification and inequality, social institutions, and social change.

SPECIAL EDUCATION

INSTRUCTIONAL CLASSES - SPECIAL EDUCATION

Credits: 1/2 credit per semester per course
Prerequisites: Placement by Williamson County Education District and Carterville Staff
Grade Level: 9, 10, 11, 12

Students are taught academic courses as stated in their Individual Educational Program (IEP). Freshman and sophomores may be in instructional classes most of their school day. Juniors and seniors may be enrolled one-half day into a work program. Carterville graduation requirements are followed.

STUDY SKILLS

Credits: 1/2 credit per semester
Prerequisites: Placement by Williamson County Education District and Carterville Staff
Grade Level: 9, 10, 11, 12

Study Skills is a special education class that gives assistance to students needing additional academic support. Students are given direct instruction in developing study skills using the SQ3R Method. Students are also given instruction in note taking, outlining, test taking, skimming, and scanning skills. Students will be taught to make their own instructional tools to help them study and are also tutored in small group or one-on-one situations. Students are scheduled into the study skills class as determined by their Individual Education Plan (IEP). Students must be placed by Williamson County Special Education District.

WILLIAMSON COUNTY REGIONAL VOCATIONAL SYSTEM CLASSES

Students requesting the courses in this program must have a good academic record, good attendance, and a good discipline record.

9201 – AUTOMOTIVE SERVICES TECHNOLOGY (JALC AST 170 & 173) (JALC AST 171A & 171B)

Credits: 3 (1 ½ per semester) Credits do not
Prerequisites: Administrative Approval
Grade Level: 12
Lab Fee: Students are responsible for books and any lab fees associated with these classes.

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is computed into student's grade point average and class rank.

AST 170 (Engine Repair) is a study of the diagnosis and repair of cylinder heads and valve trains, short blocks, lubrication, and cooling systems. AST 173 (Braking Systems) provides instruction in hydraulic principles, brake lines and hoses, disc and drum brake components, and anti-lock braking systems. AST 171A is the study of ignition systems, beginning with breaker point systems, and covering the evolution through computerized ignition systems. AST 171B is a study of fuel and exhaust systems, including carburetion, fuel injection, and computer-controlled fuel systems. These are automotive class taught on a college level along with other college level students. They meet 4 hours daily for 30 days. AST 170 follows AST 173. **Students must complete and pass both AST 170 and 173 to earn credit from Carterville High School. AST 171B follows AST 171A. Students must complete and pass both AST 171A and 171B to earn credit from CHS. Students successfully completing AST 170, AST 173, AST 171A, and AST 171B earn 16 hours toward an Automotive Services Technology degree.**

9202 - AGRICULTURE OPERATIONS I

Credits: 2/year
Prerequisites:
Grade Level: 12
Lab Fee:

Agriculture Operations is a two period class designed to develop student skills and knowledge in the area of agriculture business operations including both project and service occupations. Units of instruction will include agribusiness math, sales duties, microcomputer applications, product manufacturing, power mechanics skills, and operations of power equipment related to agribusiness operations. These skills will include selection, operation, service and adjustment, maintenance including welding processes of machinery, equipment diagnostic procedures and principles of hydraulics that are used in equipment for agribusiness operations. The student can further his or her skills through participation in an S.O.E. project.

9213 - BUILDING TRADES IA

Credits: 2/year
Prerequisites:
Grade Level: 12

This two period course provides learning experiences within the many phases of erecting a residential structure. The course will cover units in state and local building codes, blueprint reading, foundations, masonry, rough carpentry, and wiring. Safety and proper use of hand and power tools will be stressed throughout the course. Most of the skills and knowledge will be gained from on-site work experience.

9218 - COMMERCIAL ART IA

Credits: 2/year
Prerequisites: Art I and Art II
Grade Level: 12

Commercial Art IA is a two period class. The student will work with tools and have those learning experiences found in Commercial Art I. More time will be available in class for greater in depth activities in the concepts of advertising and production art in the various media such as: newspaper, magazines, television commercials, packaging, and illustrations. The computer is used as an artist's tool and video film productions are introduced.

14201 - NURSING ASSISTANT I

Credits: 2/year
Prerequisites: Biology II (Chemistry I is recommended)
Grade Level: 12

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is computed into student's grade point average and class rank.

This course is designed for seniors interested in preparing for a career in Nursing or related health services. Classroom preparation includes medical terminology (anatomy and physiology), observation and reporting skills, care of equipment and supplies, importance of nutrition and fluids, basic care skills of the acutely ill, chronically ill and the dying patient, and other basic nursing skills. The student will receive training experience at the local nursing homes and hospitals as skills are developed. The student will learn these competencies that are needed to perform under the supervision of the LPN, RN, and/or MD. Students completing this class with a B or better earn 3 hours of dual credit at JALC. Students applying to the program should have no more than 10 absences their junior year or outstanding discipline issues. CHS grades and course work are also taken into account.

141201 - MEDICAL CAREERS

Credits: 2/year
Prerequisites: Biology II
Grade Level: 12

This course offers planned educational classroom, laboratory, and clinical experiences to prepare persons to work under the supervision of medical technologists, clinical pathologists, or physicians to perform routine clinical laboratory procedures in hospitals, clinics, doctors' offices, and other clinical laboratory facilities. Emphasis will be placed on developing competencies in the many employment areas such as: medical laboratory technician, biomedical technician, emergency medical services, etc. Students will be prepared to enter articulated associate degree programs at John A. Logan or University programs.

88223 – WELDING

Credits: 1/year
Prerequisites: Technology Exploration I & II and teacher approval. **This course is for seniors with a satisfactory GPA and attendance.**
Grade Level: 12

This is a dual credit course and is offered only on campus at John A. Logan College. The final grade for this course is computed into student's grade point average and class rank.

The Welding dual credit program has been designed as a one year program specifically for high school seniors. The first semester will involve the study of oxy-acetylene equipment; production of gases, storage and distribution, types of flames, operator projective equipment, and general safety precautions, as well as torch types, their construction and classification, and specifications of gas welding rods. Joints welded will be the butt joint, outside corner joint in the flat position, the lap joint, the horizontal tee joint, as well as the butt and tee joints in the vertical and overhead positions. The second semester involves the in-depth study of M.I.G. and T.I.G. welding. By completing this one year course, students will earn 6 credits from John A. Logan College for WEL 150, 151, 160, and 162. The courses will be held at John A. Logan College in the evenings and will follow the JALC school calendar. Students will be released from their 7th hour class at Carterville High School in order to compensate for the time the student will be spending at JALC in the evenings.