

Carterville High School

Course Description Book

2020-2021

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. Information on all courses is also listed on Skyward Student Access under the "Available" tab in "Courses for 2020-21." 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.

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, colleges can provide catalogs to students who are interested in attending.

This course description booklet lists classes that are considered full-year as well as semester classes. A passing grade in a full-year course equals one credit; a passing grade in a semester course equals ½ credit. Students will not be allowed to take more than one study hall per day.

Schedules

CHS students are encouraged to plan carefully when 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 the future scheduling process.

Schedule Changes

A student and parent are expected to invest considerable time and thought into course selection. The master schedule of Carterville 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: During the first three (3) 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 (six classes that earn credit) remains for the student's schedule, and
- (3) the change is educationally sound.

Withdrawal from a course (including a dual credit class at JALC) may be made without academic penalty up to three (3) attendance days into the course. Students may reduce their load to six (6) courses that earn credit and one study hall. After three 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)**
World Geography or Illinois History (1/2 credit) – freshman year
Western Civilization (1 credit) – sophomore year
U.S. History (1 credit) – junior year
US Government & the Civic Process (1/2 credit) – senior 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) or Workplace & Career Education (1 credit) – senior year
6. **Health (1/2 credit or one semester)**
freshman year
7. **Physical Education (3 ½ credits)**
8. Electives may be chosen from the areas of social studies, English, science, math, music, art, foreign language, business, family and consumer science, industrial education, etc.
9. A minimum of twenty-four (24) credits is required for graduation. Students who fail classes are encouraged to meet with the 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.

PLANNING YOUR FOUR-YEAR HIGH SCHOOL PROGRAM

FRESHMAN

1. English
2. Science
3. Math
4. Health - ½ credit
5. Freshman PE/Driver Education - ½ credit
6. Social Studies - ½ credit
7. Lead, Empower And Develop - ½ credit

8. Study Hall
9. Elective

JUNIOR

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

6. Elective
7. Elective

SOPHOMORE

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

6. Elective
7. Elective

SENIOR

1. English
2. PE
3. Pers. Finance – ½ credit OR Workplace & Career Ed.
4. US Government & the Civic Process - ½ credit

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. If you are a college-bound student, check the website of the college or university in which you are interested to make sure you take classes that fulfill entrance 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.

2101 - BUSINESS AND TECHNOLOGY CONCEPTS

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10, 11, 12

This course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, as well as the basic functional areas of business including finance, management, marketing, administration, and production. Emphasis will be placed on using the computer to enhance communication skills, math, and problem solving. Business ethics as well as other workplace skills will be integrated throughout the course.

2204 - ACCOUNTING I

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

This is a practical accounting course for non-accounting majors. It includes a study of the elements of accounting, accounting procedures, conceptual framework, business transactions, common journals, posting, trial balance, worksheet, adjusting entries, income statement, balance sheet, statement of owner's equity, closing entries, post-closing trial balance, accounting for cash, accounting for purchases and sales, and payroll accounting.

2206 - ACCOUNTING II

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

Financial Accounting is designed to be a complete learning package for the first accounting course at the college level. Financial Accounting presents accounting as an information system that produces summary financial statements, primarily for users external to a business or other enterprise. Students study the forms of business organizations and the common transactions entered into by businesses. The emphasis is on understanding and applying basic accounting principles and other concepts that guide the reporting of the effect of transactions and other economic events on the financial condition and operating results of a business. How to analyze and interpret historical financial statements and the limitation of using these in making forward-looking business decisions are included. The course will expose the students to such topics as ethics, alternative forms of business organizations, typical business practices, legal instruments and financial statements. Woven throughout all of this is the step-by-step instruction needed to understand and apply the concepts, principles, and practices of the modern accounting system according to generally accepted accounting principles.

2212 – INFORMATION PROCESSING I (DESKTOP PUBLISHING)

Credits: 1/2 (one semester course)
Prerequisites: Business & Technology Concepts Recommended
Grade Level: 9, 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. Students will work developing skills in file management and organization, the use of Internet access, and the application of business computer software for word processing, database management, spreadsheet design, and presentation graphics software, as well as additional available software.

2231 – BEGINNING GRAPHIC COMMUNICATION

Credits: 1/2 (one semester course)
Prerequisites: None (Digital Graphics/Image Editing Recommended)
Grade Level: 10, 11, 12

The Beginning Graphic Communication course will teach students to use artistic techniques to effectively communicate ideas via illustration and other forms of digital or printed media. Topics covered may include concept design, layout, and computer graphics. 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. Emphasis will be placed on the production of various projects that meet standards of business and industry. Documents are often produced for use within CHS.

2220 – DIGITAL GRAPHICS (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 crop, adjust colors or luminosity, change size, or modify content of the images. The Digital Graphics course provides students with the opportunity to use the computer and photo editing software to produce visual imagery and to apply graphic techniques to various fields such as advertising and TV/video. This course will focus on the use of Adobe Photoshop to edit and enhance digital images. Additional topics include animation and image-retouching. 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 Beginning Graphic Communication or Web Page Design courses or careers.

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. This course is recommended for students interested in taking Broadcasting.

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 and other web design software. Students will work in a project-based environment to create a working website. Students will have several web site projects to complete. Students will learn to create pages, add hyperlinks, make tables and frames, create forms, integrate images, and set styles. Instruction will include creating graphical headers, interactive menus and buttons, and visually appealing backgrounds. The Image Editing class is recommended for students enrolling in Web Page Design.

2238 - GAME DESIGN

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

Programming & Game Design is an introductory course that will provide students with the opportunity to design, program, and create functional video games. The course will teach basic programming skills and introduce basic language features that are necessary for developing a video game. Several game making platforms will be explored. No previous programming experience is required.

2239 - BUSINESS LAW

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

Business Law introduces law and the origins and necessity of the legal system; provides insight into the evolution and development of laws that govern business in our society; develops an understanding of how organization and operation of the legal system impact business; develops an understanding of rights and duties within the business environment; and includes contractual responsibility, protection of individual rights in legal relationships relative to warranties, product liability, secured and unsecured debts, negotiable instruments, agencies, employer-employee relations, property ownership and transfer, landlord and tenant, wills and estates, community property, social security, and taxation.

3202 - COOPERATIVE CAREER EDUCATION (CCE)

Credits: 2
Prerequisites: A sequence of career and technical education courses in area(s) related to career goal; an overall "C" average; and good attendance
Grade Level: 12

Cooperative Career Education (CCE) 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. Students must apply for acceptance into the program. If accepted, students are required to take the Workplace and Career Education course, which will satisfy the Personal Finance graduation requirement. Applications and additional information can be obtained from the CCE Coordinator.

8202 – WORKPLACE & CAREER EDUCATION

Credits: 1
Prerequisites: None
Grade Level: 12

This course is required for any student enrolled in the CCE work experience course. However, students are not required to take CCE work experience to be enrolled in this course. This course will focus on providing skills related to the workplace. Areas of emphasis will include career education and exploration, job-seeking skills, personal development, legal protection and responsibilities, job survival skills, and improving students' abilities to interact positively with others. In addition, the course will introduce students to the fundamentals of personal finance and will cover basic concepts in income and tax planning, budgeting and cash-flow management, use of credit cards and installment purchasing, savings and investments, banking, retirement planning, and other basic consumer skills. This course satisfies the state requirement for consumer education as well as the provisions set forth in Public Act 94-929: Financial Literacy Instruction.

099 – INTERNSHIP

Credits: 1/2 per semester
Prerequisites: None
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 must find their own internship sites. **Students interested in an internship should contact a guidance counselor.**

ENGLISH

101 - ENGLISH I (REQUIRED)

Credits: 1
Prerequisites: None
Grade Level: 9

English I consists of the study of literature with composition woven into the curriculum. Students read novels, short stories, poetry, and Shakespeare's *Romeo and Juliet*. Literature is utilized to develop both communication and technology skills.

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. A summer reading novel will be incorporated.

103 - ADVANCED ENGLISH II

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

Advanced English II is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. The same material is covered as in English II, plus additional material. Standards are much higher, and higher level thinking skills are emphasized through various independent and cooperative projects. Research projects are required, and communication skills are developed through seminars, presentations, and conferencing. Advanced English II students are expected to be self-motivated and capable of progressing through course material at an advanced pace. Advanced English II has a summer reading requirement that involves two novel projects, one of which is due during the summer.

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 through writing. A study of American literature is included through short stories, poetry, drama, and novels. During the second semester, students will review information to prepare for the SAT. Students are required to write a research paper in this class. A summer reading novel will be incorporated.

105 - ADVANCED ENGLISH III

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

This class includes two JALC dual credit courses (ENG 101 & ENG 102) that are offered on the Carterville High School campus.

Advanced English III is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. The same English III curriculum is supplemented with additional literature. Higher-level thinking skills are emphasized. There will be a summer reading requirement, which includes two novels and a writing assignment due during the summer. A placement score on the SAT and/or the Accuplacer Test is a prerequisite for this course.

106 - ENGLISH IV (REQUIRED)

Credits: 1
Prerequisites: English I, II, and III (Must have passed all semesters of English I, II, and III). Students who fail either semester are encouraged to seek an alternative program to make up the missing credit.
Grade Level: 12

English IV literature engages students in independent and cooperative study of nonfiction and fiction texts, including novels, short stories, poetry, essays, plays, and other types of writing and reading to prepare students for life after high school. A unit on resume/cover letter writing is included as well as a research writing unit using APA format. Students also critically examine various British literature texts, including excerpts from *The Canterbury Tales* and a Shakespearean play, such as *Macbeth* or *Hamlet*.

107 - AP ENGLISH

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

AP English is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. This course is designed to prepare students to take the AP English Literature and Composition test in the spring. Passing this exam would allow students to earn college credit for a high school course. Students will be required to read a multitude of literature (novels, essays, plays, short stories, poems, etc) and write responses based upon what was read. Students will engage in a variety of composition assignments that will be reviewed and edited prior to submission. A great deal of attention will also be paid to proper grammatical structure of writing and an expansion of vocabulary skills. Consistent attendance, devotion to curriculum, willingness to frequently read and write, and participation in classroom activities are a must for any prospective student. A summer reading assignment will accompany enrollment in this course.

108 - SPEECH

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10, 11, 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.

109 – HIGH SCHOOL PUBLICATIONS

Credits: 1
Prerequisites: Consent of Instructor/Application Process
Grade Level: 9, 10, 11, 12

This course allows students the opportunity to plan, design, and publish the school's two main publications: *The Lionite* and *The Sphinx*. Students will be required to write articles for *The Sphinx* as well as participate in the creation of the yearbook, *The Lionite*. Students will study journalism techniques along with yearbook production materials. Additionally, students will be expected to participate in marketing and advertising portions for each publication. After school hours will be required for fundraising purposes along with school event coverage for each of our publications. Students will need to complete an application/recommendation process before entering the class.

112- INTERPERSONAL SPEECH COMMUNICATION

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10, 11, 12

This class continues the study and practice of public speaking and gives the opportunity for students to take an additional speech class to strengthen their speaking and listening skills. Students will participate in both group and individual activities, such as a debate; interviewing; speeches (including extemporaneous) that are not given in the other, more traditional, speech class; and group speeches. Technology will be utilized throughout the semester. 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 organize ideas clearly, prepare introductions and conclusions, and select appropriate language techniques. Finally, students will develop skills in critical listening and evaluating speeches.

113 – CREATIVE WRITING

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

This course will focus on helping students craft various genres including poetry and prose styles, as well as responding to those styles along with other mediums. Originality in thought and writing will be emphasized and editorial skills will be strengthened. Furthermore, students will read and discuss authors' styles as a guide for assignments. Most importantly, peer reviews, whole-group reading, and sharing ideas will be essential to this class.

114 – FILM, DRAMA, AND LIT

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

This course explores the translation and transition from literature to film in the character development, plot, narrative, and symbols, along with other literary devices, in analyzing and evaluating as texts are brought to life. Students will study both adaptations and pairings of well-known works. The study of film techniques will also be applied. Students will respond critically through discussions, writing assignments, projects, and tests. Various genres and time periods will be included throughout the semester to offer a broad perspective.

115 – NOVELS

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

In this class, students will read, think about, and enjoy important examples of novels/graphic novels from various authors, genres, and time periods. Students will spend time reading and looking at the novel itself, the author, and the authors' styles. Students will also be given the opportunity to explore connections to novels of their choice with the various novels covered in this class. Assignments can include seminars, projects, essay responses, and exams.

FAMILY AND CONSUMER SCIENCES

8106 – NUTRITION & CULINARY ARTS I

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10, 11, 12

This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompasses food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

8109 – NUTRITION & CULINARY ARTS II

Credits: 1/2 (one semester course)
Prerequisites: Successful completion of Nutrition and Culinary Arts I
Grade Level: 9, 10, 11, 12

Nutrition and Culinary Arts II provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, regional & international cuisine, safety and sanitation, and careers in food service industries. All of these concepts can be interpreted through laboratory experiences.

8110 – NUTRITION & CULINARY ARTS III

Credits: 1/2 (one semester course)
Prerequisites: Nutrition & Culinary Arts I & II with an A or a B
Grade Level: 11, 12

Students in Nutrition & Culinary Arts III will be exposed to a variety of units and labs. We will be covering meal planning for vegetarian diets and many other diet restraints. Units over fruits and vegetables will be completed with learning how to get creative with foods through carving and garnishes. This level of foods will be going more in depth with meats and the best preparation techniques. Some baking will be added in with pastries, pies and tarts. We will also be exploring more global foods. Another aspect to this level of foods is the food handling certificate that can be earned.

8108 - CHILD DEVELOPMENT

Credits: 1/2 (one semester course)
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 (one semester course)
Prerequisites: None
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.

8201 – INTERIOR DESIGN (LIVING ENVIRONMENTS)

Credits: 1/2 (one semester course)
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.

8107 – CLOTHING AND TEXTILES

Credits: 1/2 (one semester course)
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.

8211 – ELEMENTARY PRACTICUM

Credits: 2/year
Prerequisites: None
Grade Level: 12

This course is designed for seniors interested in preparing for a career in early childhood education, early childhood special education, elementary education, or childcare. Interested students must apply for this practicum experience in which they will be placed at Tri-C Elementary School for 3 periods each day. Selection criteria will include student grades, attendance record, and disciplinary record. If selected, students must participate in a training session prior to working in the classroom. Interns will be responsible for completing a daily timesheet and assisting the assigned teacher with instructional preparations. Responsibilities may include supporting student learning by working with elementary students through one on one or small group review as well as whole group support of instruction. Students will attend a monthly job performance meeting with their assigned Elementary teacher.

FINE ARTS

200 – PERCUSSION ENSEMBLE

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10, 11, 12
Lab Fee: Prior experience in band is required. A non-band student must request permission from Mr. Nash to take the course

Percussion Ensemble takes the place of band class for any percussionist who would normally sign up for band. Percussionists will spend time on technique and rudiments unique to their instruments. Students enrolled will be expected to be a part of the "Pride of the Lions" marching band, Symphonic Wind Band, and Lion Basketball Band, as well as small percussion ensembles. For more information on the CHS Band program, please visit www.cartervillebands.org.

201 – MIXED 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 intensive course that includes the "Pride of the Lions" Marching Band, the CHS Symphonic Winds, and Lion Basketball Band. Students are required to participate in all three performing ensembles as part of the class. Concert Jazz Ensemble (Jazz Band) is also available for students to participate in, however it is the extra-curricular ensemble of the band program, meeting two days a week after school. CHS Band students must participate in regularly scheduled co-curricular rehearsals and performances outside of the school day and on the weekends. Students are allowed to enroll with the permission of the instructor. All bands perform music of the highest quality stressing fundamentals of tone production, musicianship, theory, and interpretation of various styles. Students demonstrate their mastery of performance selections and assigned etudes through regular performance evaluations. A strong emphasis is placed upon performance and a wide variety of off-campus performances are available to the students. Band students are eligible to audition for the Illinois Music Educators Association (ILMEA) District and State level festivals, Collegiate Honor Band festivals, and the River-to-River All Conference Band. In the fall, students form the "Pride of the Lions" Marching Band. During the winter and spring, band students participate in various concerts, IHSA Solo and Ensemble Contest, and IHSA Organizational Contest as the CHS "Symphonic Winds." In addition to these winter/spring concert band duties, band students also perform at home basketball games as the Pep Band (Lion Basketball Band). For more information on the CHS Band program, please visit www.cartervillebands.org.

203 - ART I

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10, 11, 12

Art I is an entry level art class. It will introduce students to a variety of art materials and tools as well as some art history. Students will learn the proper use of tools and materials, using what they learn to create original artwork. In this semester-long class we will draw, paint, and work with clay. Art I is the prerequisite to Art I.

204 – ART II

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

Art II is a secondary level class. Students will build on the skills learned in Art I. The projects are a little more advanced and will require more effort and time to complete. A student's attention to detail and ability to get that detail into his/her artwork will be a major focus in this class.

205 – ART III

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

Art III is an advanced level class. Students will begin to show a mastery of materials and tools used to create art work. They will begin to develop their own artistic styles. Students will be asked to push themselves to create a very high quality of work.

206 – ART IV

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

Art IV is an advanced level class. Students will work with the instructor to pick projects that reflect their personal style and interests. Students will be asked to push themselves to create a very high quality of work.

208 – MUSIC APPRECIATION

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

This is a JALC dual credit course (MUS 105) that is offered on the Carterville High School campus.

Music Appreciation is designed to familiarize the student with outstanding works of musical composition by means of recordings. This includes an emphasis on the elements of music, various musical forms and periods, and great composers and performers from antiquity through the 21st century.

209 – THEATER

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10, 11, 12

The theater course is a Fine Arts elective available to all CHS students. This course can either be a semester or year-long class. In this course students will learn about and actively participate in the basics of theater i.e. terminology, literature, etiquette, improvisation, scene work, monologue, character development, and performance.

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
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grades for these courses are not computed into a student's grade point average or 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 course)
Prerequisites: Spanish I & II (C+ or better recommended)
Grade Level: 11, 12
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grade for this course is not computed into a 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 the college campus and taught to 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 course)
Prerequisites: JALC SPN 101
Grade Level: 11, 12
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grade for this course is not computed into a 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 the college campus and taught to 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 course)
Prerequisites: JALC SPN 102
Grade Level: 12
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grade for this course is not computed into a 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 a Spanish course taught on the college campus and taught to 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 course)
Prerequisites: JALC SPN 201
Grade Level: 12
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grade for this course is not computed into a 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 a Spanish course taught on the college campus and taught to college level students. Students completing and passing this course receive ½ credit from Carterville High School and 4 college credit hours from JALC.

220– JALC AMERICAN SIGN LANGUAGE I

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 10, 11, 12
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

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

American Sign Language (ASL I) is a 4 credit hour class taught on the JALC campus. This course is designed for students who have no knowledge of American Sign Language and for individuals with previous knowledge of sign language but not American Sign Language. A grade of "C" or higher must be achieved to advance to second-year classes.

221– JALC AMERICAN SIGN LANGUAGE II

Credits: 1/2 (one semester course)

Prerequisites: None

Grade Level: 10, 11, 12

JALC Fee: Students are responsible for books and any JALC fees associated with this class.

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

American Sign Language (ASL II) is a 4 credit hour class taught on the JALC campus. This course is a continuation of American Sign Language I. It is designed to develop further communicative proficiencies at the intermediate level. Students will be writing transcription symbols, sentence types, time signs, pronominalization, subjects and objects, classifiers, locatives, pluralization, and temporal and distribution aspects for execution. Students will experience additional in-depth receptive and expressive proficiency development. Nonmanual aspects (grammar markers) will be featured and emphasized. Additional information about the deaf community/deaf world and its culture will be featured. A grade of "C" or higher must be achieved to advance to second-year classes

INDUSTRIAL TECHNOLOGY

9100 – RESIDENTIAL TECHNOLOGY I

Credits: 1/2 (one semester course)

Prerequisites: Algebra I (or current enrollment in Algebra I)

Grade Level: 9, 10, 11, 12

This course is for the student who wants to understand the everyday technology around them and to be able to not just survive in the ever changing world, but succeed. The student will learn the mechanical aspects of different forms of Transportation, simple automotive and small engine repair and maintenance, and energy Utilization. In addition, students will learn simple home repairs, wiring, plumbing, and residential house design. Also, basic woodworking, welding, tool purchasing guide and introduction to a variety of miscellaneous useful skills.

9105 – FOUNDATIONS OF DRAFTING

Credits: 1/2 (one semester course)

Prerequisites: None

Grade Level: 9, 10, 11, 12

This semester course explores the areas of drafting by exploring basic 2D sketching, isometric drawings, and 3 view drawings. Students will also be introduced to AutoCAD software by drawing 2D mechanical drawings in 3 views, and drawing a 2D architectural floor plan. In addition, there will be an introduction to Autodesk Inventor, allowing students to design 3D objects and later print them on a 3D printer or prototyping machine.

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.

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.

9107 – CONSTRUCTION ORIENTATION

Credits: 1/2 (one semester course)
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 (one semester course)
Prerequisites: Construction Orientation
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: Construction I 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. Students will study linear and non-linear functions, with an emphasis on quadratic and exponential functions. The student learns to factor and use its applications in problem solving; to solve linear, fractional, and quadratic equations; and to graph functions. Emphasis is placed on topics from geometry such as the Pythagorean Theorem and finding the distance between two points. 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. Students wanting to enroll in Geometry and Advanced or regular Algebra II concurrently must have earned an A for each semester of Algebra I.

408 – ADVANCED GEOMETRY

Credits: 1
Prerequisites: 8th Grade Algebra I (C or better each quarter) or 9th Grade (A both semesters) Algebra I
Grade Level: 9, 10

Advanced Geometry is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. This is an accelerated section of geometry. 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. Students wanting to enroll in Advanced Geometry and Advanced or regular Algebra II concurrently must have earned an A for each semester of Algebra I.

403 - ALGEBRA II

Credits: 1
Prerequisites: Algebra I and Geometry (or concurrently enrolled in Geometry)
Grade Level: 10, 11

Algebra II is a continuation of Algebra I. Concepts studied in Algebra I are reviewed and studied in greater detail. The students learn to work with exponents, radicals, probability and statistics, 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 year. 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/SAT preparation plays a role in the course syllabus and will play a factor in the semester grade. This course is recommended for juniors and relies on the usage of graphing calculators. Although there is less Pre-Calculus and AP Calculus preparation in this class in comparison to Advanced Algebra II, this class will offer considerably more preparation for the ACT/SAT. Students wanting to enroll in Advanced or regular Geometry and Algebra II concurrently must have earned an A for each semester of Algebra I.

404 - ADVANCED ALGEBRA II

Credits: 1
Prerequisites: Algebra I, Geometry (or concurrently enrolled in Geometry)
Grade Level: 10, 11 with Teacher Recommendation

Advanced Algebra II is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. This is an accelerated section of Algebra II. The lessons covered will be more advanced than those covered in Algebra II. The curriculum for this class will offer considerably more preparation for Pre-Calculus. Enrichment topics and problem solving will be studied. This section is primarily for sophomores who plan to take Pre-Calculus their junior year and AP 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. Students wanting to enroll in Advanced or regular Geometry and Advanced Algebra II concurrently must have earned an A for each semester of Algebra I.

409 - PRE-CALCULUS

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

This course is designed for juniors as their third math credit or for seniors intending to major in areas requiring higher-level math than College Algebra. This course will move at a regular pace. The topics covered will be similar to those in Advanced Pre-Calculus, but not to the same extent. The first semester of pre-calculus covers quadratic functions, polynomial functions, complex numbers, and exponential functions. 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/SAT preparation. All topics, including ACT/SAT prep, will be a factor of the semester grade. Students opting to take the course need strong algebra skills and a strong work ethic. This course relies on the usage of graphing calculators.

413 – ADVANCED PRE-CALCULUS

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

Advanced Pre-Calculus is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. This course is an accelerated section of Pre-Calculus and is designed to ready students for AP Calculus their senior year or for those intending to major in areas requiring higher-level math than College Algebra. A student earning a 70% or below after nine weeks will be enrolled in a regular Pre-Calculus course, schedule permitting. The first semester of Advanced Pre-Calculus covers quadratic functions, polynomial functions, complex numbers, exponential functions, and logarithms. 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/SAT preparation. All topics, including ACT/SAT prep, will be a factor of the semester grade. Students opting to take the course need strong algebra skills and a strong work ethic. This course relies on the usage of graphing calculators.

410 – AP CALCULUS

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

AP Calculus is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. 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. The course syllabus has been approved as an Advanced Placement class by the College Board. A considerable part of the course will be dedicated to preparing for the AP Exam. Students will be expected to take the AP Calculus test in an attempt to earn college credit.

411 –CONTEMPORARY MATH

Credits: 1/2 (one semester course)
Prerequisites: Successful completion of 3 math credits, Placement Score Required
Grade Level: 12

This is a JALC dual credit course (MAT 113) that is offered on the Carterville High School campus.

This is a dual credit class through John A. Logan (MAT 113) that is a general education mathematics course which fulfills 3 hours of the John A. Logan core curriculum mathematics requirement. Designed particularly for the non-science major, the course focuses on mathematical reasoning and problem solving, rather than on routine skills. Four main topics will be studied in depth: set theory, logic, counting techniques and probability, and the mathematics of personal finance. A placement score on the SAT and/or the Accuplacer Test is a prerequisite for this course. There will also be a fee associated with the online materials required for this course.

414 – STATISTICS

Credits: 1/2 (one semester course)
Prerequisites: Successful completion of 3 math credits, Placement Score Required
Grade Level: 12

This is a JALC dual credit course (MAT 120) that is offered on the Carterville High School campus.

This is a dual credit class through John A. Logan (MAT 120) that is a general education mathematics course which fulfills 3 hours of the John A. Logan core curriculum mathematics requirement. The course introduces the basic properties of descriptive and inferential statistics, basic probability theory, probability distributions, graphing, measures of location and variation, linear regression and correlation. Emphasis is placed on the application of statistics, distributions, and regression analysis. A placement score on the SAT and/or the Accuplacer Test is a prerequisite for this course. There will also be a fee associated with the online materials required for this course.

PHYSICAL EDUCATION / HEALTH / DRIVER EDUCATION

502 – FRESHMAN PE/DRIVER EDUCATION

Credits: 1/2
Prerequisites: Students must have passed eight courses in the previous two semesters.
Grade Level: 9
Fee: \$80.00 for the class - Students will also be responsible for the permit fee, which is \$20 payable to the Secretary of 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 Carterville 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. State law requires students to attain 30 hours of classroom education and 6 hours of behind-the-wheel training with a driver education instructor. Driver Education is offered each semester to freshmen only. Students are enrolled by their date of birth; students with earlier birthdates will be enrolled first. There is an \$80 fee to the school for enrolling in Driver Education class. In the event that a student must retake the classroom portion as a sophomore in the early-bird class, the student must again pay the \$80 fee. When students pass the state test in order to get their Instruction Permit, students will pay a \$20 fee to the State of Illinois. All students taking driver education must have passed eight (8) classes the two prior semesters. When it is time for students to do their behind-the-wheel driving at school, they will be taken out of Study Hall or PE classes to drive.

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, written exams, and physical fitness testing. 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, and bowling. **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. 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. **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.**

504 – HEALTH (REQUIRED)

Credits: 1/2 (one semester course)
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 ensure 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.

506 – PERSONAL FITNESS

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

The Personal Fitness curriculum is designed with the intent of improving the many aspects of wellness including, cardiovascular fitness, muscular strength and endurance, flexibility, mental health, nutrition, and personal safety (self - defense). This non-traditional Physical Education course serves as an alternative to the traditional Physical Education courses and is encouraged for students of all fitness levels, as it can be modified for each individual student. It incorporates a wide variety of activities and guest trainers in order to target every one of these wellness aspects. Activities incorporated in this course include Zumba, Pilates, Self - Defense techniques, Kickboxing, cardio games, toning, and other continuous activities. Students will have the ability to create their own individual workout plans and will also be introduced to fitness technology, which will help monitor their progress and workouts.

510 – MEDICAL TERMINOLOGY

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

This is a JALC dual credit course (HIT 217) that is offered on the Carterville High School campus.

This is an introduction to medical terminology which includes word building principles; basic anatomy and physiology, key anatomical and physiological terms; combining forms, suffixes, and prefixes. In addition, students will learn how to listen critically for important terms, respond to others using medical terminology, and generate their own terminology-rich writing and speech.

SCIENCE

602 – PHYSICAL SCIENCE

Credits: 1
Prerequisites: None
Grade Level: 9

This course covers scientific laws and principles that govern matter and energy. Topics include matter, energy, motion, heat, light, sound, work, electricity, magnetism, gravity, atomic theory, the Periodic Table, and nuclear reactions. Students will use math skills to do calculations and participate in labs regularly throughout the course.

604 - BIOLOGY I

Credits: 1
Prerequisites: Physical Science
Grade Level: 10

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. 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: Freshmen must have earned a B or better in 8th grade science and/or teacher recommendation. Sophomores must have earned a grade of B or better in Physical Science

Grade Level: 9, 10 (11, 12 only in case of transfer student with appropriate prerequisites)

Advanced Biology I is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. This course covers similar concepts to Biology I but in greater detail and with more rigor. Emphasis will be on science and society, biochemistry, and molecular interactions that result in processes carried out by all organisms. Students will participate in various lab activities and learn how to write laboratory reports evaluating the concepts from the curriculum and labs. This course is appropriate for students anticipating a career in science or medical fields who have a desire to participate in a more challenging course. This course also places these students on track to select their own science electives as sophomores.

609 – ECOLOGY

Credits: 1/2 (one semester course)

Prerequisites: Biology I or Advanced Biology I

Grade Level: 10, 11, 12

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. In addition, other topics discussed will include the structure of the Earth, weather, renewable and non-renewable resources, and conservation. This course includes student led activities and is a one-semester course.

610 – ZOOLOGY

Credits: 1/2 (one semester course)

Prerequisites: Biology I or Advanced Biology I

Grade Level: 10, 11, 12

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. Each unit covers anatomy, adaptations, and key characteristics of these organisms. Students will also participate in dissections of various animals throughout the course. This is a one-semester course.

605 - ANATOMY AND PHYSIOLOGY

Credits: 1

Prerequisites: C or higher in Biology I or Advanced Biology I or special approval

Grade Level: 10, 11, 12

NOTE: Students with a grade of A or B in Biology I or Advanced Biology I will be given priority.

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: Biology I or Advanced Biology I, Geometry or Advanced Geometry

Grade Level: 10, 11, 12

Chemistry I studies the nature and interactions of matter. Students will gain knowledge of the laws, principles, and concepts of theoretical chemistry and understand ordinary chemical phenomena which they encounter in their everyday activities. 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. Topics include atomic theory, nomenclature, chemical reactions, stoichiometry, energy, and chemical behavior. Students who anticipate a career in a science-related field should take this course during 10th or 11th grade in order to allow for more science course options in their junior and senior years. The course is typically offered to juniors and seniors, but is open to sophomores who have completed Advanced Biology I and Geometry or Advanced Geometry, or who have a teacher recommendation.

607 – AP CHEMISTRY

Credits: 1

Prerequisites: Chemistry I (recommended B average)

Grade Level: 11 or 12

AP Chemistry is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. This course is equivalent to the general chemistry course usually taken during the first college year. AP Chemistry is designed to provide the student with an understanding of the advanced concepts of solutions, kinetics, chemical equilibrium, solubility, precipitation, acids, bases, oxidation-reduction, electrochemistry, thermodynamics and an introduction to organic chemistry. The student is also introduced to advanced laboratory skills and maintains a permanent lab notebook. This course gives the student who has passed Chemistry I the opportunity to apply the skills and knowledge acquired to more advanced material. AP Chemistry is recommended for students who wish to continue their study of chemistry in order to keep their skills sharp for college. Students are expected to take the national AP Chemistry exam in an attempt to earn college credit.

611 – PHYSICS

Credits: 1
Prerequisites: B or higher in Algebra II or Advanced Algebra II or currently enrolled in Algebra II or Advanced Algebra II with recommendation from the Geometry teacher
Grade Level: 10, 11, 12

This course explores the explanations behind physical phenomena in our world. Topics include Newton's Laws of Motion, forces and fields, vectors and 2-dimensional motion, work, energy, momentum and collisions, gravitation and circular motion, heat, waves and their properties, sound, light and its dual nature, and electricity and magnetism. Students will conduct laboratory investigations to explore phenomena, increase understanding through problem analysis, and participate in class discussions. This is a mathematically-rigorous college prep course that will help prepare students for careers in science, engineering, or other technological fields.

608 – JALC PHYSICS 155

Credits: 1/2 (one semester course)
Prerequisite: Pre-Calculus or Advanced Pre-Calculus or concurrent enrollment in Pre-Calculus or Advanced Pre-Calculus
Grade Level: 11, 12
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grade for this course is not computed into a 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 and 5 college credit hours at JALC.

609 – JALC PHYSICS 156

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

This is a dual credit course offered only on campus at John A. Logan College. The final grade for this course is not computed into a 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

809 - WORLD GEOGRAPHY

Credits: 1/2 (one semester course)
Prerequisites: None
Grade Level: 9, 10

Areas of study will include physical geography, cultural/historical background of the region, and study of the regions within the 21st century world.

803 – ILLINOIS HISTORY

Credits: 1/2 (1 semester course)
Prerequisites: None
Grade Level: 9, 10

Illinois History will focus on state history from early inhabitants through modern time. It will also include a unit on local history and genealogy.

815 – LEAD, EMPOWER AND DEVELOP (LEAD)

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

This course will be a semester-long class that will give students an avenue to train and develop personal skills in the areas of character and leadership. Students will learn what it takes to positively impact their teams, school, families, and world they live in. This course will empower students to close the gap on who they are and who they want to be. Students will learn what it looks like to be true leaders in their communities and what inspires people to lead lives of significance. With the use of books, videos, and guest speakers, this course will consist of discussion, self-reflection, and in-class activities to help support students' character development. This class will be personally relevant by challenging students to not only learn these vital traits but immediately apply them to their daily lives, guiding them as they transition into and through their high school years and beyond.

804 – WESTERN CIVILIZATION (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.

805 - ADVANCED WESTERN CIVILIZATION

Credits: 1
Prerequisites: None
Grade Level: 10

Advanced World Studies is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. 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 course will include additional emphasis of critical historical thinking skills, creating historical arguments, as well as the integrating, analyzing and evaluating of additional primary sources. This class is a possible precursor to A.P. U.S. History but not a requirement.

801 - U.S. HISTORY (REQUIRED)

Credits: 1
Prerequisites: None
Grade Level: 11

With an emphasis on the 20th Century, the purpose of this course is to give students a working knowledge of United States history. Special Attention will be given to major social movements/revolutions, wars and legislative changes that have shaped the American Identity. In this course, students will read, write, analyze primary sources, create historical arguments and discuss democratic issues, both past and present.

802 - AP U.S. HISTORY

Credits: 1
Prerequisites: None
Grade Level: 11

Advanced US History is a weighted course. A 0.5 weight will be added to the points earned in this course when computing students' grade point averages. AP U.S. History is representative of a college-level course with the intent of providing the student with analytical skills and factual knowledge essential for navigating the ever-changing social, political and cultural landscape of United States history. This survey course is a broad chronological study of America, pre-Columbian to present, that utilizes various readings covering a range of historical themes and perspectives, as identified by the College Board. This fast-paced course places a heavy emphasis on the development of analytical reading and writing skills. Due to the annotation requirement in the course, students will be expected to purchase the appropriate text for study. While taking the AP Exam in May is not mandated, rigorous preparation for success on the exam will take priority.

806 - U.S. GOVERNMENT AND THE CIVIC PROCESS (REQUIRED)

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

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, and the responsibility of citizens to ensuring its success. 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 as well as the role all citizens play in the success of its operation. The final portion of the class will be reserved for an overview of our state government – its function and purpose – focusing on state officials and structure of the state Constitution.

111 - HUMANITIES

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

This class will explore the history of civilizations through the cultural study of art, music, religion, architecture and philosophy. Students will engage in class discussions as well as project-based learning.

808 - PSYCHOLOGY

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

Psychology is the study of human 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. Individual and group interactions are also studied.

813 – COLLEGE SUCCESS AND CAREER PLANNING

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

This is a JALC dual credit course (PSY 110) that is offered on the Carterville High School campus.

This semester-long course will focus significant attention to critical thinking and developing a plan to collegiate and adult success. Additional time will be spent focused on honing writing and communication skills for success in both the college and professional setting. Development of practical skills and strategies will be integrated throughout.

814 – PRACTICAL LAW

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

Students will develop a basic understanding of our legal system, its terminology and its procedures. An emphasis will be placed on analyzing real world issues and court cases, including landmark Supreme Court cases, that relate to our rights as citizens and the role of our legal system. The class will rely heavily on discussions, group projects, and simulations.

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. Study Skills is graded on a pass/fail grading scale.

JALC VOCATIONAL PROGRAMS

Students requesting a JALC vocational program must have good academic, attendance, and discipline records.

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

Credits: 3 (1 ½ per semester)
Prerequisites: Administrative Approval
Grade Level: 12
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grades for these courses are not computed into a 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.

14201 - NURSING ASSISTANT I

Credits: 1/semester
Prerequisites: Anatomy & Physiology & Chemistry I are recommended
Grade Level: 12 (Grade 11 if space permits)
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grade for this course is not computed into a 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. This class will meet for three class periods during the fall semester OR spring semester.

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
JALC Fee: Students are responsible for books and any JALC fees associated with this class.

This is a dual credit course offered only on campus at John A. Logan College. The final grades for these courses are not computed into a 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 protective 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.

CHS/JALC DUAL CREDIT COURSES

Students must sign up for CHS/JALC dual credit courses on the scheduled JALC registration date. Students will register in the spring for fall classes and in the fall for spring classes. These dates will be announced and emailed to students and parents. Visit www.jalc.edu/dual-credit-and-dual-enrollment-for-high-school-students for more information about dual credit. Visit www.jalc.edu/college-catalog/course-descriptions for detailed course descriptions. JALC classes taught by JALC instructors are NOT computed into a student's CHS grade point average and class rank. JALC dual credit classes taught by Carterville High School instructors are computed into a student's CHS grade point average and class rank.

Dual Credit Courses Taught on CHS Campus:

ENG 101 – English Composition I (3 cr.) & **ENG 102 – English Composition II** (3 cr.) are available as Advanced English III–Grade 11

HIT 217 – Medical Terminology (3 cr.) – Grades 11 & 12

MAT 113 – Contemporary Math (3 cr.) – Grade 12

MAT 120 – Statistics (3 cr.) – Grade 12

MUS 105 – Music Appreciation (3 cr.) – Grades 11 & 12

PSY 110 – College Success and Career Planning (3 cr.) – Grades 11 & 12

PHS 107 – Weather & Climate (3 cr.), **COM 115 – Speech** (3 cr.), **PSC 131 – American Government** (3 cr.), **SOC 215 – Diversity in American Life** (3 cr.), are available as a group cohort – Grade 12

Dual Credit Courses Taught on JALC Campus:

SPN 101 – Elementary Spanish I (4 cr.) – Grades 11 & 12 (Students must have taken Spanish I & II at CHS)

SPN 102 – Elementary Spanish II (4 cr.) – Grades 11 & 12 (Students must have taken Spanish I & II at CHS)

SPN 201 & 202 may be offered as online classes to students in Grade 12 (Students must have taken Spanish I & II at CHS)

PHY 155 – College Physics I (5 cr.) – Grades 11 & 12

PHY 156 – College Physics II (5 cr.) – Grades 11 & 12

Automotive Program:

AST 170 – Engine Repair (4 cr.) – Grade 12

AST 171A – Ignition Systems (4 cr.) – Grade 12

AST 171B – Fuel and Exhaust Systems (4 cr.) – Grade 12

AST 173 – Braking Systems (4 cr.) – Grade 12

Graphics Design Program:

GRD 110 – GRD 110 Graphics Design I (5 cr.) – Grade 12

GRD 120 – Graphics Design II (5 cr.) – Grade 12

ART 180 – Drawing I (3 cr.) – Grade 12

ART 296 – Photography I (3 cr.) – Grade 12

Certified Nursing Assistant:

NAD 101 – Nursing Assistant Training (7 cr.) – Grades 11 & 12

Welding Program:

WEL 150 – Oxy-Acetylene Fusion Welding I (1 cr.) – Grade 12

WEL 151 – Oxy-Acetylene Fusion Welding II (2 cr.) – Grade 12

WEL 160 – M.I.G. Welding (2 cr.) – Grade 12

WEL 162 – T.I.G. Welding (1 cr.) – Grade 12

WILLIAMSON COUNTY CTE PROGRAMS

Seniors should see a counselor for an application if interested in any of the programs listed below. Students requesting a Williamson County CTE program must have good academic, attendance, and discipline records.

Building Trades I—Marion—3 Credits

This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading.

Building Trades II—Marion—3 Credits

This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines and drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential chimneys and fireplaces, laying, jointing and pointing brick, and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge.

Landscaping I and II—Marion—2 Credits

This advanced course focuses on the landscape, nursery, and turf segments of the horticulture industry. Units of student instruction include: identifying landscape plants, designing landscape plans, hardscape construction techniques, and installing landscape plants. Also included are nursery production, turf grass production, small engine repair, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticulture business, 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.

Commercial Art I—Marion—2 Credits

This course is designed to provide students with the skills needed for a career in the fields of advertising, commercial art, graphic design, web site development, and graphic illustrator. Students learn to apply artistic design and layout principles along with text, graphics, drawing, rendering, sound, video, and 2D/3D animation integration to develop various print, video, and digital products. Students use hardware and software programs to create, manipulate, color, paint, and layer scanned images, computer graphics, and original artwork. Students use hardware and software to capture, edit, create, and compress audio and video clips. Students use animation and 2D/3D hardware and software to create animated text, graphics, and images. Students apply artistic techniques to design and create advertisements, displays, publications, technical illustrations, marketing brochures, logos, trademarks, packaging, video graphics, and computer-generated media.

Commercial Art II—Marion—2 Credits

This course continues to build on the concepts and skills introduced in Commercial and Advertising Art I. In addition to expanding on the activities explored in Commercial and Advertising Art I, students work in a project-based environment to create a variety of interactive online and CD/DVD-based products such as web sites, catalogs, publications, marketing materials, presentations, and educational /training programs. Students create dynamic web pages and sites using HTML, HTML editors, and graphic editors. Students create graphic sketches, designs, and copy layouts for online content. Instruction includes how to determine size and arrangement of illustrative material and copy, select style and size of type, and arrange layout based upon available space. Students learn how to capture and edit images, sound, and video, and combine them with text and animation. Instruction includes client interviewing skills, product proposal development, and product presentation techniques. Students also learn how to create a product portfolio.

Medical Careers—Herrin—2 Credits

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.

Prostart I—Marion—2 Credits

This course provides terminology, culinary math, and practical experiences needed for the development of culinary competencies and workplace skills. Safety and sanitation instruction and classroom application will prepare students for an industry recognized sanitation exam. Classroom experiences will develop skills to work in the front of the house, back of the house, and work stations. Additional content may include: event planning, customer service and relations, food service styles, baking and pastry arts, hors d'oeuvres, and breakfast cookery. Students will be provided opportunity training experiences on commercial equipment.

Prostart II—Marion—2 Credits

Culinary Occupations II places special emphasis for students to develop operational management skills -including design and organization of food service systems in a variety of settings, human relations, and personnel training and supervision. Additional topics include: food cost accounting; taking inventory; advertising; monitoring consumer and industry trends; and individualized mastery of culinary techniques. Training experiences involve equipment and facilities simulating those found in business and industry.

Child Care I—Marion or Herrin—2 Credits

This course provides students with information and practical experiences needed for the development of competencies related to child /adult care, day care, and other education services occupations. Laboratory experiences, either in a school -based or worksite learning facility, are included throughout the class. Students meet standards in developing programs and assisting with children's and /or adult's activities. Classroom study includes the philosophy and management of care centers and the state and local regulations governing care -giving operations. The learning experiences will involve working with children /adults simulating those found in business and industry, as well as preparation for developing and facilitating these activities.

Child Care II—Marion or Herrin—2 Credits

This course emphasizes the skills associated with the administration of the infant, child and adult care facilities and education centers. Skills, strategies and issues related to caring for infants and special needs children and adults, where applicable, are included. Emphasis is placed on career opportunities, communication skills, human relations and the service needs of clients in the occupational area. The major learning experiences will involve actual work with children and/or adults in facilities simulating those found in the workplace /industry, and discussion of the situations and problems that arise during the learning experiences. State licensing and certification requirements and regulations related to all -aspects of care and education are stressed throughout the course. Careers in the occupational area will be investigated, including entrepreneurship.

Apparel Services I –Marion—2 Credits

Fashion Merchandising focuses on the application of research techniques to understand the cultural, environmental, and psychological aspects of textile products as related to the customer needs. This course develops skills to research and apply knowledge of a product for the textile and design industry through hands -on, problem based learning experiences and projects. Topics include: product knowledge and promotion; industry trends and style; industry specific terminology; marketing campaigns; current technology; and visual merchandising displays. Emphasis is placed on the development of a variety of communication techniques necessary in the promotion of products and the formation of client relationships.

Apparel Services II—Marion—2 Credits

This course prepares students for employment and higher education programs of study related to the broad spectrum of careers encompassed in fashion, apparel, and textile industries. This course provides students with opportunities to: analyze the influences of social, cultural, and environmental diversity in the fashion, apparel, and textile industry; investigate applicable regulatory and policy issues; assess product quality; develop a design portfolio; refine and develop industry skills necessary to employment in fashion, apparel, and/or textiles; model proper safety procedures; communicate with potential customers /clients using industry terminology; perform operational functions; and research current industry employment **opportunities, including the investigation of entrepreneurship.**

Manufacturing I—Herrin—2 Credits

This course introduces students to the basic mechanical and technical skills common to most fields in the fabrication of metal parts in support of other manufacturing activities. Topics include shop safety, hand and power tool use, the operation and maintenance of precision metal working equipment, precision measurement, quality control, exploring the manufacturing process, instrumentation and blueprint reading.

Manufacturing II—Herrin—2 Credits

This course builds on the skills and concepts introduced in Machine Shop Technology I. Additional skill -building activities include automated manufacturing, the use of end mills, surface grinders, drill presses, and basic welding procedures.

Fire Science—Marion—2 Credits

This course is designed to provide students with the skills needed to prevent and extinguish fires, maintain and repair fire service related equipment, provide basic emergency medical treatment, and prepare public service information concerning fires and hazardous materials. Instruction includes the physical characteristics of fire as well as general safety practices, basic fire behavior, and extinguishing principals. Students learn rescue and extrication procedures, types and use of ground ladders, proper ventilation techniques, appropriate use of various water systems, how to use ropes and tie knots, use of fire hoses, controlling property loss along with fire control techniques, detection systems, prevention practices and communication procedures. The course may also include procedures for operating emergency vehicles, maintaining fire-related equipment and vehicles in the field, and securing and protecting evidence. The topics of emergency medical techniques and practices which include medical legal considerations, terminology, airway management, procedures for treating poisoning and allergic reactions, environmental emergencies, how to treat soft tissue injuries, musculoskeletal, head and spine injuries, initial patient assessment, transportation, and emergency treatment will be discussed.