

# **McNairy Central High School**

**493 High School Road**

**Selmer, TN 38375**

**(731)645-3226**

**Website: [www.mchscats.org](http://www.mchscats.org)**

## **Program of Studies 2017-2018**

**Principal: Mr. Mickey Murphy**

**Assistant Principals: Ms. Cristy King and Mr. Scott Powers**

**School Counselors: Ms. Amber Leonard and Ms. Tiffany Johnson**

### **Mission Statement**

The **mission** of McNairy Central High School is to prepare students for post-secondary success by equipping them intellectually, physically, socially, and ethically.

### **Vision Statement**

McNairy Central is reaching today's students and developing tomorrow's leaders.

## HIGH SCHOOL STUDY PLAN

4 English Credits	English I, English II, English III and English IV
4 Math Credits	Algebra I, Geometry, Algebra II and an additional credit above Algebra II
3 Science Credits	Biology, Chemistry or Physics, and one additional lab science
3 Social Studies Credits	World History & Geography (1), US Government (1/2), Economics (1/2) and US History & Geography (1)
1 Lifetime Wellness Credit	
½ Physical Education Credit	Requirement can be met by participation in marching band, athletics, and/or cheerleading
1 Computer Credit	Computer Applications
½ Personal Finance Credit	
2 Foreign Language Credits *	Spanish I and Spanish II
1 Fine Art Credit*	Visual Arts, General Music, Band, Choir, or Theatre Arts
3 Elective Focus Credits	(See Elective Focus Areas below)
3 Elective Credits	

\*credits may be waived for students not planning to attend a 4 year university in order for students to pursue more credits in their focus area

### **Elective Focus Areas**

\*Students must earn 3 additional credits in an elective focus to meet the requirements for graduation.

1. Career Technical Focus (Choose a career cluster – page 19)
2. Fine Arts Focus (3 additional credits in Fine Arts)
3. Humanities Focus (3 additional credits in Social Studies)
4. STEM Focus -Science, Technology, Engineering, and Math (a combination of 3 additional credits in Math, Science, Engineering and/or a technology)
5. Business Focus Area (A combination of 3 credits from Business & Information Technology and/or Marketing)

### **TESTING**

Students will take the TNReady Assessments in English I, English II, English III, Algebra I, Geometry, Algebra II, Biology, Chemistry and US History & Geography. These assessments will count in students' final grade for each course.

## **GRADE CLASSIFICATION**

Sophomore – 4 credits

Junior – 12 credits

Senior – 18 credits

## **DUAL ENROLLMENT**

### **Jackson State Community College and Tennessee College of Applied Technology**

Transferable dual enrollment allows students to earn both high school credit and college credit for approved college-level courses taken at MCHS. Jackson State Community College and the Tennessee College of Applied Technology offer opportunities for MCHS students to earn college credit or credit toward certification/licensure while in high school. Students taking courses under dual enrollment status are eligible for the Tennessee Dual Enrollment Grant and may receive \$600 per semester (up to \$800 maximum). Other tuition costs not covered by this grant are the responsibility of the student. Textbooks required by JSCC or TCAT for these courses are not covered by the Dual Enrollment Grant and are the responsibility of the student. In order to be a JSCC Dual Enrollment student, a minimum 3.0 cumulative GPA is required as well as minimum ACT sub-scores in each area.

## **HONORS COURSES**

Several courses are offered at the honors level. These courses require more time, more work and move at a faster pace. More material is covered in the classroom. Students must be recommended and approved by the teacher to take the course. Summer work is required.

## **ACT TEST**

The ACT test is given to indicate what students are likely to know at the present and what they will be able to do in the future – whether it is college or career. The ACT TEST is given in the 11<sup>th</sup> grade. These tests are paid for by the state of Tennessee for each student to take one time. The ACT scores are used by colleges and universities to determine admission and scholarships.

# McNairy Central High School

## Course Offerings

### 2017-2018

#### FINE ARTS

- BAND** **3530**  
**2 credits** **Grade 9-12**  
 This class is a performance group including marching, concert and pep bands. These various bands participate in concert and marching festivals, as well as offer individuals the chance to attend honor bands and Solo and Ensemble contests. All students must remain in this class all year. Emphasis in this class is based on students meeting individual goals to improve the band as a whole. **Prerequisite: Audition, previous band experience**
- CONCERT CHOIR** **3531C**  
**2 credits** **Grade 9-12**  
 This class is a mixed choir that performs both in and out of school in varying styles with choreography; students may also perform at some competitions. This class is a prerequisite for Women's Choir and Jazzcats. Special permission is required to enroll in choir for one semester. **Lab fee: \$15 per semester Lab Book: \$12.50 Uniform fee: varies (\$40-55) Prerequisite: Audition**
- COLOR GUARD** **3530C**  
**1 credit** **Grade 9-12**  
 This is a performance group with marching band. This course will be devoted to preparing a routine for the marching field show in the fall. **Prerequisite: Audition**
- WOMEN'S CHOIR** **3531W**  
**2 credits** **Grade 10-12**  
 This choir is made up of treble voices, which perform varying styles of music with choreography. Women's Choir will perform at competitions and concerts in and out of school throughout the year. This class requires some experience in music reading and vocal production gained through membership in Choir I or permission of the director. **Lab fee: \$15 per semester, Lab Book: \$12.50, Uniform fee: varies. Prerequisite: Audition**
- GENERAL MUSIC** **3505**  
**1 credit** **Grade 9-12**  
 This course is designed for any student who would like to learn more about music on a broad scope. It covers many areas such as the basic methodology of music, music history, musical form, and the role that music plays in our lives.
- JAZZ BAND** **3530D**  
**½ credit** **Grade 9-12**  
 This class will be offered after school for 1/2 credit during the second semester. It introduces styles of music including Jazz, Latin, Rock and Funk. The jazz band will participate in various events.
- JAZZCATS** **3531**  
**2 credits** **Grade 10-12**  
 This choir is a small balanced ensemble of voices. JazzCats participate in All-West and All-State Competitions, Solo and Ensemble Competitions, Swing/Show Choir Competitions, and Regional and State Choral Festival in addition to many concerts around the community. This class requires experience in theory, reading music, and vocal production. Special permission is required to enroll in choir for one semester. **Lab Fee: \$15 per semester Uniform Fee: varies. Prerequisite: Audition**

**THEATRE ARTS****3524****1 credit****Grade 9-12**

This course will focus on the basics of acting including stage direction and set production. Students will take part in individual and group performance, and will produce a short play at the conclusion of the class.

**VISUAL ART I****3501****1 credit****Grade 9-12**

This class is an introduction to drawing and pictorial composition using basic drawing media in black and white. Primary emphasis is on line, form, value, texture, space, and shape. The introduction of color concepts and the visual elements, principles and factors of artistic organization are taught as they apply primarily to two-dimension design.

**Lab Fee: \$15.00****VISUAL ART II****3502****1 credit****Grade 10-12**

This course continues drawing with introduction of color media in pictorial composition with primary emphasis on analytical skills, cognitive development and use of critical skills, the exploration of alternative techniques and media. Emphasis is on aesthetics and analysis of individual works of art.

**VISUAL ART -ADVANCED****3543****1 credit****Grade 10-12**

This course includes working with figures, landscape and still life subjects approached from the standpoint of their compositional and expressive possibilities (Design of individual projects centered on the application of drawing, mixed media techniques and three-dimensional media.) Students will develop an individual style and will create a portfolio of work. **Prerequisite: Visual Arts I, II**

**FOREIGN LANGUAGES****SPANISH I****3021****1 credit****Grade 10-12**

Spanish I is the first level modern language course. In this first level course, students are introduced to the fundamentals of the language through the study of vocabulary, grammar structure, and pronunciation. Students are also introduced to the culture of the countries where the language is spoken. The four skill areas (reading, listening, speaking and writing) are covered with emphasis on grammar and pronunciation. Conversational Spanish is practiced frequently as a communicative tool.

**SPANISH II****3022****1 credit****Grade 10-12**

The second level Spanish course pursues the mastery of the comprehension skills of listening and reading, and the expression skills of reading and writing. Increased emphasis is placed on reading and writing. The ability to understand and speak the foreign language is further developed through the introduction of additional vocabulary and grammar and increased practice in conversation. Students will do research in the culture and history of the Hispanic countries. **Prerequisite: Spanish I**

**SPANISH III****3023****1 credit****Grade 11-12**

In Spanish III, students continue developing competency in listening, reading, writing and fluency in speaking, through practicing with expanded vocabulary and advanced grammar structures. Communication and reading skills are emphasized. Self-expression in the target language is encouraged as opportunities for writing and speaking, as well as research and culture projects, are frequently provided as deemed appropriate by the teacher. **Prerequisite: Spanish II**

## LANGUAGE ARTS

The Honors English program is recommended for highly motivated students with exceptional language aptitude and skills as demonstrated by standardized test results and English/Language class grades.

### **ENGLISH I** **1 credit**

**3001**  
**Grade 9**

English I reinforces and pursues mastery of thinking, speaking, reading, and writing skills begun in grades 1-8. The English I curriculum covers assignments in grammar, communication, writing, research, logic, informational text, media, and literature. **Students must attain a passing average of 70 and submit an acceptable research project in order to complete requirements for English I credit.**

### **ENGLISH I HONORS**

**3001A**

#### **1 credit**

**Grade 9**

English I Honors is the first step in a sequence of accelerated English courses. This course reinforces and pursues mastery of thinking, speaking, reading, and writing skills begun in grades 1-8. The English I curriculum covers assignments in grammar, communication, writing, research, logic, informational text, media, and literature. Outside reading is required each nine weeks period in addition to regular classroom assignments. Students will be expected to read, comprehend, and write at ninth grade level. **Students must attain a passing average of 70 and submit an acceptable research project in order to complete requirements for English I credit** Prerequisites: **Completion of summer reading requirements and teacher recommendation.**

### **ENGLISH II**

#### **1 credit**

**3002**  
**Grade 10**

This course is designed to help students continue to develop skills in reading, writing, and vocabulary. Literature involves a survey of such genres as short stories, poetry, essays, dramas, autobiographies, and novels. In addition, a systematic study of vocabulary is emphasized. **An acceptable research project may be required to receive credit for this course.** Prerequisite: **English I**

### **ENGLISH II HONORS**

#### **1 credit**

**3002B**  
**Grade 10**

Students are expected to demonstrate advancing proficiency in content, structure, originality, and in the use of the English language. Honors English students study a detailed anthology of American literature, and the reading of classical works is emphasized. Certain novels, plays, short stories, and poems are selected for analysis to provide students with suggestive, imaginative, and intuitive qualities found in timeless literature. **An acceptable research project will be required to receive credit for this course.** Prerequisites: **Completion of summer reading requirement and successful completion of English I Honors (final average of 85 or above).**

### **ENGLISH III**

#### **1 credit**

**3003**  
**Grade 11**

This course is designed to help students continue to develop skills in reading, writing, and vocabulary. Literature involves a survey of American authors from the pre-colonial era to present. Argumentative writing, grammar and vocabulary are emphasized. **An acceptable research project will be required to receive credit for this course.** Prerequisite: **English II.**

### **ENGLISH III HONORS**

#### **1 credit**

**3003D**  
**Grade 11**

This college-prep course features a survey of British literature (Anglo-Saxon Period through 17th Century). An in-depth study of the elements of fiction is facilitated by the study of several novels, which depict ideals of life in America during significant historical periods. The composition components include journal entries, essays, and a research project. Fundamentals of grammar and vocabulary are addressed as compositions reveal weaknesses. **An acceptable research paper is required.** Prerequisite: **Completion of summer reading assignment, exemplary completion of English II Honors (final average of 85 or above).**

**ENGLISH IV – Dual Enrollment****2 credits****3014****Grade 12**

This course offers a college bound curriculum emphasizing the development of sound study habits through motivating classroom lectures, class discussions, stimulating assignments, and opportunities for independent study. Special emphasis is placed on developing skills in literary analysis and expository and creative writing. Fundamentals of grammar are reviewed as compositions reveal areas of weakness. The course requires extensive reading and writing.

It also prepares the student to take the AP exam and to receive possible college credit. **An acceptable research paper will be required to receive credit for this course. Prerequisites: Successful completion of Honors English at the 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup> grade (final average of 85 or above), teacher recommendation, and completion of summer reading assignment. A 3.0 GPA and ACT sub-scores of 18 in English and 19 in Reading are required for Dual Enrollment. The successful completion of components of the senior project is required.**

**ENGLISH IV****1 credit****3007****Grade 12**

This course enhances the communication and employability skills of the college-bound or non college-bound student by emphasizing reading, writing, speaking/listening and viewing/representing within the context of real-world problem solving activities. One activity may include compiling an extensive career portfolio. **The successful completion of components of the senior project is required.**

**ENGLISH IV - HONORS****1 credit****3005A****Grade 12**

This course is designed to help students prepare for college. A college-level textbook is used in the course, and it is supplemented with paperback novels. A general survey of Western literature will be stressed along with the increased development of analytical skills and increased development of writing skills. A systematic study of vocabulary is emphasized. **An acceptable research paper will be required to receive credit for this course. A summer reading program is required. Prerequisites: Successful completion of English III Honors (final average of 85 or above) and completion of summer reading assignment. The successful completion of components of the senior project is required.**

**MODIFIED ENGLISH****1 credit****9408****Grade 9-12**

This course is for students meeting special education guidelines. The focus of this course will be on Common Core Standards for each grade level.

**MATHEMATICS****ALGEBRA I****2 credits****3102****Grade 9-12**

Algebra I will cover the topics of variables, functions and their graphs, solving and writing linear and quadratic equations, solving systems of equations, exponents, exponential use of radicals, factoring polynomials, and simplifying rational expressions. Successful completion of this course will result in the student being awarded one math credit and one elective credit toward graduation requirements.

**ALGEBRA IA / IB****2 credits****31025 / 31026****Grades 9-11**

These courses are designed for students who meet Special Education guidelines. Algebra IA includes algebraic language and properties, operations with integers and polynomials, and solving equations and inequalities. Algebra IB includes factorization, graphing, rational expressions and systems of equations.

**ALGEBRA I HONORS****1 credit****3102A****Grade 9- 12**

Algebra I Honors is an accelerated math course designed to include all topics covered in Algebra I, as well as advanced topics in the curriculum. **Prerequisite: Teacher recommendation**

**ALGEBRA II****1 credit****3103****Grade 10-12**

Algebra II builds upon the skills mastered in Algebra I. It further develops topics in linear equation and inequalities, polynomials, problem solving and system of equations. It also deals with quadratic equations, roots and radical, conic sections, logarithmic functions, sequences and series, and probability. **Prerequisites: Algebra I and Geometry**

**ALGEBRA II HONORS****3103A****1 credit****Grade 10-12**

Algebra II Honors represents an accelerated and rigorous approach to Algebra II. This course integrates the concepts of algebra with problem solving, real-life applications and technology to connect mathematical concepts to real-world situations. **Prerequisites: Final average of 85 or above in Algebra I Honors and Geometry Honors (\*Exceptions only by administrative approval)**

**AP CALCULUS****3113****1 or 2 credits****Grade 12**

Calculus is a one-year study that prepares students to take the College Board Entrance Examination in AP Calculus for Advanced Placement. Students who successfully complete the course and receive an acceptable score on the advanced placement test may receive college credit and/or advanced standing in college. This course will cover elementary functions and differential and integral calculus. **Prerequisites: Algebra I and II, Geometry, Pre-Calculus.**

**BRIDGE MATH****3181****1 credit****Grade 12**

Bridge Math is a course is an upper level mathematics course designed for seniors to help prepare them for college level mathematics and/or real world math applications. It is highly recommended for students who have not earned a 19 on the math component of the ACT. **Prerequisites: Algebra I, Geometry, and Algebra II.**

**GEOMETRY****3108****1 credit****Grade 10-12**

Geometry is the area of mathematics that deals with the study of relationships of points, lines and planes. It includes measurements, proofs, constructions, algebraic skills, trigonometry, and concepts of plane and solid figures. **Prerequisites: Algebra I**

**GEOMETRY HONORS****3108A****1 credit****Grade 10-12**

Geometry Honors represents an accelerated and rigorous approach to Geometry. Geometry is the area of mathematics that deals with the study of relationships of points, lines and planes. It includes measurements, proofs, constructions, algebraic skills, trigonometry, and concepts of plane and solid figures. **Prerequisites: Algebra I Honors**

**GEOMETRY 1A / 1B****31085 /31086****1 credit****Grade 11-12**

These courses are designed for students who meet Special Education guidelines. Geometry is the area of mathematics that deals with the study of relationships of points, lines and planes. It includes measurements, proofs, constructions, algebraic skills, trigonometry, and concepts of plane and solid figures. **Prerequisites: Algebra I**

**PRE-CALCULUS I (DUAL ENROLLMENT) – previously Advanced Algebra****3126A****1 credit****Grade 11-12**

Topics include circles, functions, and graphs with applications, polynomials and rational functions, exponential and logarithmic functions and applications, sequences, and series, systems of equations, matrices, determinants, binomial theorem. **Prerequisite: Algebra I, Geometry, Algebra II. A GPA of 3.0 and an ACT Math sub-score of 19 are required for Dual Enrollment.**

**PRE-CALCULUS II with Trigonometry (DUAL ENROLLMENT)****3126B****1 credit****Grade 11-12**

Topics include circle measurement, trigonometric functions, identities, equations, graphs, multiple angle formulas, right triangle trigonometry, laws of sines and cosines, complex numbers, vectors. **PREREQUISITE FOR CALCULUS AT THE HIGH SCHOOL LEVEL Prerequisites: Algebra I, Geometry, Algebra II. Successful completion of Pre-Calculus I (DE), an ACT Math sub-score of 19 and a 3.0 GPA is required for Dual Enrollment.**



## DRIVER'S EDUCATION , PHYSICAL EDUCATION & HEALTH

### DRIVER'S EDUCATION

3321

½ credit

Grade 9-12

This course consists of classroom training to achieve a passing score on the written and behind-the-wheel exam required by the state of Tennessee before a driver's license is issued.

### LIFETIME WELLNESS

3303

1 credit

Grade 9

Lifetime Wellness focuses on the principles of lifetime health, not just activity and sports. The Lifetime Wellness curriculum is consistent with the Presidential physical fitness program. Students completing this course will be better prepared to assume responsibilities for personal lifetime wellness. This course is required for graduation.

### PERSONAL FITNESS

3301

½ credit

Grade 10-12

Personal Fitness is designed to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. Students will actively participate to reinforce knowledge for lifetime fitness.

### TEAM SPORTS AND CONDITIONING

3303A/3303B

½ credit

Grade 9-12

This course is an elective physical education credit. It does not replace the Lifetime Wellness requirement. This program stresses team sports concepts, conditioning, and team sportsmanship.

### Athletics

The following courses are offered for no credit. Students may not receive credit for athletic practice during the school day. Exception: *Students who participate on three athletic teams that practice during the school day may earn up to one in-house credit per year. An in-house credit is defined as an elective credit that counts towards the 26 credits required for graduation but cannot count as one of the 22 credits required by the state for graduation.*

BASKETBALL, FRESHMAN GIRLS	9313B	FOOTBALL, FRESHMAN	9313F
BASKETBALL, VARSITY GIRLS	9313A	FOOTBALL, VARSITY	9313G
BASKETBALL, FRESHMAN BOYS	9313E	BASEBALL	9313H
BASKETBALL, VARSITY BOYS	9313C	SOFTBALL	9313S

Other sports offered at MCHS with after-school practice include: cheerleading, soccer, tennis, volleyball (girls), track and golf.

## SCIENCE

### AGRISCIENCE

5957

1 credit

Grade 9-12

This course covers competencies relating to ecology and conservation, cell structure, genetic and reproduction, animal nutrition, soil and plant chemistry, power and energy. **Each student enrolled in Agriscience must memorize and recite the FFA Creed in order to receive credit for the course.**

### Advanced Biology – Dual Enrollment

3217

2 credits

Grade 11-12

Newly redesigned course standards cover four "Big Ideas": evolution leading to diversity & unity, free energy for life processes & chemical reactions, the response of living systems to information, and biological interactions. Additionally, seven science practices will be taught: using representations & models, using mathematics appropriately, engaging in scientific questioning & thinking, planning & implementing data collection strategies, data analysis & evaluation, working with scientific explanations & theories, and connecting & relating knowledge across domains. This course also prepares students to take the AP exam in order to earn college biology credit. **Lab Fee: \$50 required for supplies. Prerequisites: A "B" average in Biology I and Chemistry and application / teacher approval / Completion of Summer Assignment. A GPA of 3.0 and an ACT Reading sub-score of 19, English sub-score of 18 and Math sub-score of 19 are required for Dual Enrollment.**

**BIOLOGY** **3210**  
**1 credit** **Grade 9-11**  
The purpose of the General Biology curriculum is to provide students with the opportunity to better understand living organisms. General areas to be covered during the course will include cells, interaction of living things with the environment, the flow of matter and energy, heredity and biodiversity and change. **Lab Fee: \$5**

**BIOLOGY I HONORS** **3210A**  
**1 credit** **Grade 9-11**  
The purpose of the Biology I Honors is to provide an in-depth study of biological concepts. General areas of study covered in the course will include cells, interaction of living things with the environment, the flow of matter and energy, heredity and biodiversity and change. **Prerequisites: Teacher Recommendation. Lab Fee: \$5**

**BIOLOGY II** **3216**  
**1 credit** **Grade 10-12**  
Biology II is a course that introduces students to major specialty areas of biology. The students explore the following: Comparative Anatomy and Zoology, Embryology, Genetics, Immunology, Microbiology, and Botany. **Prerequisite: Biology I Lab Fee: \$10**

**CHEMISTRY I** **3221**  
**1 credit** **Grade 10-12**  
Chemistry is a comprehensive course involving the study of the properties of matter and including the structure of atoms and their relationship to each other. Emphasis is placed on a problem solving approach to quantitative measurement of stoichiometric relationships. Topics for study include atomic structure, chemical bonding, formula and equation writing, gas laws, acids, bases, salts, solutions and carbon compounds. Laboratory experiences are provided to familiarize students with safety and basic principles of laboratory usage. **Prerequisite: 80 or above average in Algebra I or pass Physical Science. Lab Fee: \$10**

**CHEMISTRY I HONORS** **3221A**  
**1 credit** **Grade 10-12**  
Chemistry I Honors is an in-depth course involving the study of the properties of matter and including the structure of atoms and their relationship to each other. Topics for study include atomic structure, chemical bonding, formula and equation writing, gas laws, acids, bases, salts, solutions and carbon compounds. Laboratory experiences will be an integral part of classroom instruction. **Prerequisite: Biology I Honors or Teacher Recommendation Lab Fee: \$10**

**CHEMISTRY II** **3224**  
**1 credit** **Grade 11-12**  
Chemistry II reinforces, with more sophisticated treatment, important topics from first year chemistry. First nine weeks topics: atomic theory, bonding, energy and chemical change, ionic equilibrium, kinetics, electrochemistry, and solution stoichiometry. Second nine weeks topics: organic chemistry, qualitative inorganic analysis, environmental chemistry, plus an individual project. **Prerequisite: 80 or above average in Chemistry I. Lab Fee: \$10**

**ENVIRONMENTAL SCIENCE** **3260**  
**1 credit** **Grade 10-12**  
This course is designed to provide students with a balanced approach to the diverse study of our environment. It emphasizes the study of science and the development of thinking and decision-making skills. Topics include ecosystems and how they work, atmosphere and climate, food, energy, waste, population growth, and national and international policies related to environmental issues. **Lab Fee: \$3**

**PHYSICAL SCIENCE** **3202**  
**1 credit** **Grade 10-12**  
Physical Science is a course that explores the relationship between matter and energy. Students will investigate forces and motion, the chemical and physical properties of matter, the ways in which matter and energy interact within the natural world and the forms and properties of energy. Physical Science will provide the knowledge and prerequisite skills needed for problem solving, as well as a basic foundation for advanced studies in chemistry and/or physics.

**PRINCIPLES OF TECHNOLOGY I****5886****1 credit****Grade 10-12**

Principles of Technology includes the study of the concepts of force work, rate resistance, energy, power and force transformers, and their applications in modern technology. It also providea a background in current technology necessary for successful performance in a current industrial career. **Prerequisite: Algebra I**

**PRINCIPLES OF TECHNOLOGY II****5887****1 credit****Grade 10-12**

Principles of Technology II is a lab science course that deals with the relationship between matter and energy and how they interact. This course will have a strong emphasis in the application of physics in technology. The completion of Principles of Technology I and II fulfills the requirement for a credit required in Physics. **Prerequisite: Principles of Technology I**

**PHYSICS****3231****1 credit****Grade 11-12**

The Physics course includes topics in both classical and modern physics. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems will be the major goals of the course. The five general areas include mechanics, kinetic theory and thermodynamics, electricity and magnetism, waves and optics, and modern physics. Laboratory experiences are provided to help the student understand these principles. **Prerequisites: 80 or above average in Algebra II and Geometry**

**SOCIAL STUDIES****ADVANCED US HISTORY – Dual Enrollment****3440****2 credits****Grade 11-12**

It is the purpose of the course to acquaint the student with the major movements and events in United States history. Specifically, the student should develop an understanding of the rise of the nation as a political entity and the sectional conflicts that accompanied its growth. **Prerequisite: A GPA of 3.0 and an ACT sub-score of 19 in Reading are required for Dual Enrollment.**

**CONTEMPORARY ISSUES****3435****½ credit****Grade 11-12**

Students will use inquiry skills to examine the issues that impact the contemporary world. Included in the course will be analysis of the historical, cultural, economic, and geographic factors that have raised certain issues to levels of concern in our nation and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

**ECONOMICS****3431****½ credit****Grade 9-12**

This course focuses on the study of how people, businesses, and governments choose to use resources. Students are introduced to the concept of scarcity and how they can be wise consumers. **Required for Graduation**

**PSYCHOLOGY****3433****1 credit****Grade 11-12**

Psychology is an elective course in the science of behavior. Students are made aware of how people behave and why they behave as they do. Students can learn to face and resolve problems of a personal nature and those problems involving others. The study will give a broad overview of basic psychological principles, and students will be exposed to a variety of psychological study methods.

**SOCIOLOGY****3432****1 credit****Grade 11-12**

Sociology is the study of human behavior within the context of social groups. Students will analyze human similarities and differences. During the course of study, a student will be exposed to a variety of world cultures and belief systems. Additional work will involve recognizing the ways that culture shapes an individual's place in society. Topics for research and discussion will include adolescence, poverty, social systems, and world famine.

**U.S. GOVERNMENT and CIVICS****3417****½ credit****Grade 10-12**

The course will develop an increased awareness of the role of local, state, and federal government in the everyday life of American citizens. Emphasis will be placed on the three branches of the federal government with an intensive study of the United States Constitution. **Required for Graduation**

**U.S. HISTORY and GEOGRAPHY****3416****1 credit****Grade 11-12**

American History is a survey course that covers the time period from Reconstruction to the present. The social, political, economic, and cultural aspects of each time period are examined. Students will utilize different methods that historians use to interpret the past, including points of view and historical context. **Required for Graduation**

**WORLD HISTORY and GEOGRAPHY****3415****1 credit****Grade 9-12**

This survey course examines the development of culture, social customs, and political systems of world civilizations from the Enlightenment period to the present day. Special attention will be given to the areas of religion, literature, arts, sciences, and industry. Additionally, students will study aspects of technical geography such as GPS and GIS, and how these innovations continuously impact geopolitics in the contemporary world. **Required for Graduation**

**CAREER TECHNICAL COURSES****WORK-BASED LEARNING****6105****1 or 2 credits****Grade 12**

Work-based Learning allows students to have access to experiences that allow them to apply classroom theories to practical problems and to explore career options at the work-site. The work-site experiences may be paid or unpaid, may occur in a public, private, or non-profit organization. The WBL must be an extension of the learning (students must be taking courses at the time they are working). The student will be monitored by a WBL coordinator and be required to turn in assignments as requested. WBL can be offered as the fourth course in any career cluster. The job must be related to your career focus area.

**AGRICULTURE****AGRICULTURAL MECHANICS AND MAINTENANCE****5944****1 credit****Grade 10-12**

This course focuses on developing the mechanical skills necessary to perform work on the farm and in agriculturally related businesses and services including SAE, land measurements, carpentry, masonry, electricity, metalwork, plumbing, small gas engines, electric motors, facility maintenance. **Prerequisite: Agriscience**

**AGRICULTURAL POWER AND EQUIPMENT****5945****1 credit****Grade 10-12**

This course focuses on competencies necessary for succeeding in entry level employment and advanced training related to agricultural power and equipment covering engine operations, fuel systems, intake & exhaust, lubrications, selection & service. **Prerequisite: Agriculture Mechanics and Maintenance**

**AGRISCIENCE****5957****1 credit****Grade 9-12**

This course includes competencies relating to ecology & conservation, cell structure, genetics and reproduction, animal nutrition, soil & plant chemistry, power & energy. **Each student enrolled in Agriscience must memorize and recite the FFA Creed in order to receive credit for the course.**

**ENVIRONMENTAL RESOURCES****6114****1 credit****Grade 10-12**

Applied Environmental Science focuses on the knowledge, information, and skills related to the fundamental science and management of ecosystems as well as careers, leadership and history of the industry. This course covers principles of environmental impacts, energy consumption, and ecosystem management. **Prerequisite: Agriscience**

**GREENHOUSE MANAGEMENT** **5954**  
**1 Credit** **Grade 10-12**  
This course includes competencies in management, plant care, parasites and disease, transplanting, and business operations. **Prerequisite: Agriscience**

**LARGE ANIMAL** **6116**  
**1 credit** **Grade 10-12**  
Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry. **Prerequisite: Agriscience**

**NATURAL RESOURCE MANAGEMENT** **6117**  
**1 credit** **Grade 10-12**  
Natural Resource Management is an applied-knowledge course for students interested in learning more about becoming good stewards of our environment and natural resources, as an environmental scientist, conservationist, forester, or wildlife manager. This course covers major types of natural resources and their management, public policy, the role of public education in managing resources, as well as careers, leadership, and history of the industry. **Prerequisite: Agriscience**

**SMALL ANIMAL** **5958**  
**1 credit** **Grade 10-12**  
Small Animal Science is an applied course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry. **Prerequisite: Agriscience**

**SOIL & PLANT SCIENCE** **5950**  
**1 credit** **Grade 10-12**  
This course includes competencies in SAE, natural resources, policies, water & air quality management, erosion control, and hazardous materials. **Prerequisite: Agriscience**

## **ARCHITECTURE & CONSTRUCTION**

**FUNDAMENTALS OF CONSTRUCTION** **6073**  
**1 credit** **Grade 10**  
Construction Core is a course that will introduce students to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems. **Lab fee \$10**

**CARPENTRY - Structural Systems I** **6164**  
**2 credits** **Grade 11**  
Carpentry I is a course that will introduce students to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood, metal, and concrete building materials; fasteners; hand and power tools; fabrication based on construction plans; and framing of platform and post-and-beam structures, in both wood and metal. This course will include the construction of a building from the foundation to the finished structure. **Lab Fee: \$20. Prerequisite: Fundamentals of Construction.**

**CARPENTRY – Structural Systems II** **6165**  
**2 credits** **Grade 12**  
Carpentry II is a course in which students will extend their skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpenters. **Prerequisite: Fundamentals of Construction and Carpentry – Structural Systems I. Lab fee \$20**

## **BUSINESS & INFORMATION TECHNOLOGY**

### **ACCOUNTING I**

**5910**

**1 credit**

**Grade 10-12**

Accounting I involves an overview of the complete accounting process which includes concepts, principles and practices used when preparing financial records, interpreting the information, and applying it to the conduct of business activities. Students will become acquainted with accounting as it relates to careers and personal financial records. Workbook required.

### **ACCOUNTING II**

**5911**

**1 credit**

**Grade 11-12**

The advanced course expands on topics learned in first year while adding new topics about management accounting, cost accounting, not-for-profit accounting, and financial analysis. It is an excellent background and preparation for college business and accounting courses and business majors. **Prerequisite: Accounting I.**

### **ADVANCED COMPUTER APPLICATIONS**

**5904**

**2 credits**

**Grade 10-12**

Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the historical, social and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production, accurate production analysis, management of information, and design and presentation of a multimedia project. **Prerequisite: Application and Interview**

### **BUSINESS MANAGEMENT**

**5889**

**1 credit**

**Grade 10-12**

Business Management focuses on the development of the planning, organizing, leading, and controlling functions required for the production and delivery of goods and services. This applied knowledge course addresses the management role of utilizing the businesses' resources of employees, equipment, and capital to achieve an organization's goals.

### **COMPUTER APPLICATIONS**

**5891**

**1 credit**

**Grade 9**

This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the historical, social and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production, accurate production analysis, management of information, and design and presentation of a multimedia project.

**Required for Graduation**

### **COMPUTER SCIENCE FOUNDATIONS**

**6095**

**1 credit**

**Grade 10-12**

This course is intended to provide students with exposure to various information technology occupations and pathways. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. **Prerequisite: Computer Applications**

### **INTRODUCTION to BUSINESS and MARKETING**

**5905**

**1 credit**

**Grade 9-12**

Introduction to Business and Marketing is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers.

### **PERSONAL FINANCE**

**5901**

**½ credit**

**Grade 11-12**

Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics will include income, money management, spending and credit, as well as saving and investing. This course will provide a foundational understanding for making informed personal financial decisions. **Required for Graduation**

**WEB DESIGN I****6100****1 credit****Grade 10-12**

This course prepares students to develop commercial Web sites on the Internet. Students will develop Internet research techniques for business, effectively use a Web site, examine related social, legal and ethical issues, and integrate the elements of Web design. Typography, layout and design guidelines will be applied in the design of Web pages. Students may earn the ACE (Adobe Certified Expert) certification in the choice of Adobe software.

**Prerequisite: Computer Applications****WEB DESIGN II****6101****1 credit****Grade 11-12**

This course builds on the skills and knowledge gained in Web Design I to further prepare students for success in the web design and development fields. Emphasis is placed on applying the design process towards projects of increasing sophistication, culminating in the production of a functional, static website. **Prerequisite: Computer Applications**

**and Web Design I****ENGINEERING****PRINCIPLES OF ENGINEERING****5924****1 credit****Grade 10-12**

Principles of Engineering and Technology is a foundational course in the STEM cluster for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others.

**ENGINEERING DESIGN I****6139****1 credit****Grade 11-12**

Engineering Design I is a fundamental course in the STEM cluster for students interested in developing their skills in preparation for careers in engineering and technology. The course covers essential knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Tennessee. They will also be able to identify simple and complex machines; calculate various ratios related to mechanisms; explain fundamental concepts related to energy; understand Ohm's Law; follow the steps in the engineering design process to complete a team project; and effectively communicate design solutions to others. **Prerequisite: Principles of Engineering**

**ENGINEERING DESIGN II****6140****1 credit****Grade 11-12**

*Engineering Design II* is an applied course in the STEM career cluster for students interested in further developing their skills as future engineers. This course covers knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to explain the differences between scientists and engineers, understand the importance of ethical practices in engineering and technology, identify components of control systems, describe differences between laws related to fluid power systems, explain why material and mechanical properties are important to design, create simple free body diagrams, use measurement devices employed in engineering, conduct basic engineering economic analysis, follow the steps in the engineering design process to complete a team project, and effectively communicate design solutions to others. **Prerequisite: Principles of Engineering and Engineering Design I**

**HEALTH SCIENCE****ANATOMY AND PHYSIOLOGY****5991****1 credit****Grade 10-12**

This course integrates a study of the human body structure and function to provide students with an understanding of the human body, parts and systems, normal processes and functions, etc.

**CLINICAL INTERNSHIP** **5993**  
**1 or 2 credits** **Grade 12**  
Seniors may receive 1 credit from a clinical internship after completing Medical Therapeutics. An additional credit may be earned from Clinical Internships following Diagnostic Medicine. \*Students must purchase \$12 malpractice insurance and two uniforms. Students must be CPR certified. They must also have a physical and proof of health and car insurance. **Prerequisite: Application & Interview**

**DIAGNOSTIC MEDICINE** **5994**  
**1 credit** **Grade 10-12**  
Diagnostic medicine creates a picture of an individual's health status at a single point in time. This could include careers as cardiology, imaging, medical laboratory, radiography, nuclear medicine, stereotactic, radiosurgery, speech pathologists, respiratory therapist, clinical laboratory technician, pathologists, medical doctor, histotechnologist, orthotist, plastic surgeon, prosthetist, prosthodontist, and others. **Prerequisite: Health Science Education.**

**HEALTH SCIENCE EDUCATION** **5998**  
**1 credit** **Grade 9-12**  
This course is an introductory course designed to prepare students to pursue careers in the healthcare field. Students will be able to identify careers in this field, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills.

**MEDICAL THERAPEUTICS** **5999**  
**1 credit** **Grade 11-12**  
This is an applied course designed to prepare students to pursue careers in therapeutic services. The student will be able to identify careers in therapeutic services; assess, monitor, evaluate, and report patient/client health status; and identify the purpose and components for treatment. **Prerequisite: Health Science Education.**

**NURSING EDUCATION** **6000**  
**1 Credit** **Grade 12**  
Nursing Education consists of 18 units of study dealing with direct bedside nursing care. Clinical experience will consist of supervised practice in the nursing home, as well as demonstrations in the classroom. Students can be registered by Tennessee Department of Health—after the completion of the course, 100 hours clinical and theory, passing a state test (both written and skills)—and will be job ready. **Prerequisite: Health Science Education and Teacher approval**

## HUMAN SERVICES

**INTRODUCTION TO HUMAN STUDIES** **6137**  
**1 credit** **Grade 9-12**  
Introduction to Human Studies is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. This course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process. This course also includes sewing and cooking labs.

**FAMILY STUDIES** **6136**  
**1 credit** **Grades 10-12**  
Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Course standards focus on the demographic, historical, and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family. **Prerequisite: Introduction of Human Studies**

**FASHION DESIGN** **6008**  
**1 credit** **Grade 10-12**  
Fashion Design is an applied-knowledge course intended to prepare students to pursue careers in the fashion industry. Building on the knowledge acquired in *Foundations of Fashion Design*, this course places special emphasis on apparel manufacturing and merchandising, marketing applications, product and service management, and the creation of an original fashion collection. In addition, students will explore trends in fashion design and engage with industry-specific technologies used to produce a variety of fabrics, garments, and accessories.



**FOUNDATIONS OF FASHION DESIGN****6120****1 credit****Grades 10-12**

Foundations of Fashion Design introduces students to the rich history of the fashion industry and the basic design principles that are integral to its operation. This course studies the history of the fashion industry, elements and principles of design, textile history and composition, as well as basic construction principles.

**INTERIOR DESIGN****6014****1 credit****Grade 10-12**

Interior Design is intended to prepare students for careers in residential and commercial interior design. Upon completion of this course, students will be able to analyze and demonstrate the elements and the principles of design, and apply these concepts using sketching techniques in the creation of perspective floor plans.

**LIFESPAN DEVELOPMENT****6013****1 credit****Grade 10-12**

Lifespan Development builds basic knowledge in human growth and development. The course standards include developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying. **Prerequisite: Introduction of Human Studies**

**NUTRITION ACROSS the LIFESPAN****6005****1 credit****Grade 10-12**

Nutrition Across the Lifespan is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. This course covers human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. **Prerequisite: Introduction of Human Studies**

**NUTRITION SCIENCE****6007****1 credit****Grade 10-12**

Nutrition Science and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. The course covers the development of a nutrition care plan as part of the overall health care process. Methods for analyzing the nutritional health of a community are explored. Finally, the relationship of diet and nutrition to specific diseases will be researched including the role of diet as a contributor to disease and its role in the prevention and treatment of disease. **Prerequisite: Introduction of Human Studies**

**MANUFACTURING****PRINCIPLES OF MANUFACTURING & WELDING****5922****1 credit****Grade 10-12**

Principles of Manufacturing focuses on the essential principles that must be mastered for a person to be effective in manufacturing production work. The course is intended for students more interested in production than engineering. The course covers customers, quality principles and processes, systems, information in the workplace, the business of manufacturing, and statistical process control.

**ADVANCED MANUFACTURING I****4059****2 credits****Grade 11-12**

Advanced Manufacturing I is designed to prepare students with the skills and knowledge to be effective in production environments. Students will learn safety practices concerning manufacturing technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Students will also explore postsecondary career opportunities in manufacturing. **Prerequisite: Principles of Manufacturing and Welding**

**ADVANCED MANUFACTURING II****4060****2 credits****Grade 12**

Advanced Manufacturing II is an advanced level contextual course that builds on the introductory skills learned in Advanced Manufacturing I. Upon completion of this course, proficient students will be able to examine blueprints and specification drawings to plan and implement the manufacture of products, machine parts to specifications using both manual and computer-controlled machine tools, and measure, examine, and test completed products to check for defects and conformance to specifications. **Prerequisite: Advanced Manufacturing I**

## MARKETING, SALES & SERVICES

### **INTRODUCTION to BUSINESS and MARKETING**

**5905**

**1 credit**

**Grade 9-12**

Introduction to Business and Marketing is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers.

### **MARKETING I**

**5931**

**1 credit**

**Grades 10-12**

This course is designed for students interested in entering the business world through work-related training while in high school or through preparatory courses in college. In addition to the areas of study, the students are required to participate in DECA chapter activities. This course may substitute for economics. **Prerequisite: Introduction to Business and Marketing**

### **MARKETING II**

**5932**

**1 credit**

**Grades 11-12**

This course is designed to be a continuation of Marketing I. Classroom instruction may be reinforced through supervised hours of on-the-job training in retail, wholesale, or service business. Students are not required to participate in the on-the-job training; however, it is recommended. Students **MUST** join DECA and must participate in either DECA competitive events or the written events. **Prerequisite: Marketing I**

## TRANSPORTATION

### **INTRODUCTION TO COLLISION REPAIR**

**6071**

**1 credit**

**Grade 10**

The Transportation Core course prepares students for entry into all subsequent transportation courses. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, and basic technician skills. Upon completing this course students may enter collision repair and refinish technology. **Lab fee \$10**

### **COLLISION REPAIR: NON-STRUCTURAL**

**6062**

**2 credits**

**Grade 11**

Collision Repair: Non-Structural is a course that prepares students to analyze non-structural collision damage to a vehicle, determine the extent of the damage and the direction of impact, initiate an appropriate repair plan, and correctly use equipment to fit metal to a specified dimension within tolerances. Course content includes metal finishing, body filling and glass panel replacements. The course prepares students for entry level employment and advanced training in collision repair technology and post secondary education. **Prerequisite: Introduction to Collision Repair. Lab fee required.**

### **COLLISION REPAIR: PAINTING & REFINISHING**

**6063**

**2 credits**

**Grade 12**

Collision Repair: Painting & Refinishing is for students who wish to obtain in-depth knowledge and skills in automotive painting and refinishing procedures in preparation for postsecondary training and careers as collision repair technicians. Upon completion of this course, proficient students will be able to develop, document, and implement refinishing plans for given vehicles. Standards in this course include surface preparation; spray gun and related equipment operation, paint mixing, matching, and applying; diagnosis and correction of paint defects; and final detailing. **Prerequisite: CR: Non-Structural. Lab fee required.**

## Career Technical Career Clusters

### Agriculture

1. Agricultural Engineering
  - \_\_\_ Agriscience
  - \_\_\_ Agriculture Mechanics & Maintenance
  - \_\_\_ Agriculture Power & Equipment
2. Environmental and Natural Resources Systems
  - \_\_\_ Agriscience
  - \_\_\_ Environmental Resources
  - \_\_\_ Soil & Plant Science
  - \_\_\_ Greenhouse
3. Veterinary & Animal Science
  - \_\_\_ Agriscience
  - \_\_\_ Small Animal
  - \_\_\_ Large Animal

### Architecture & Construction

4. Carpentry
  - \_\_\_ Fundamentals of Construction
  - \_\_\_ Carpentry – Structural Systems I
  - \_\_\_ Carpentry – Structural Systems II

### Business & Information Technology

5. Accounting
  - \_\_\_ Introduction to Business & Mktg
  - \_\_\_ Accounting I
  - \_\_\_ Accounting II
6. Office Management
  - \_\_\_ Computer Applications
  - \_\_\_ Business Management
  - \_\_\_ Advanced Computer Applications
7. Web Design
  - \_\_\_ Computer Applications
  - \_\_\_ Computer Science Foundations
  - \_\_\_ Web Design I
  - \_\_\_ Web Design II

### Engineering

8. Engineering
  - \_\_\_ Principles of Engineering
  - \_\_\_ Engineering Design I
  - \_\_\_ Engineering Design II

### Health Science

9. Diagnostic Services
  - \_\_\_ Health Science Education
  - \_\_\_ Diagnostic Medicine
  - \_\_\_ Anatomy & Physiology
  - \_\_\_ Clinical Internship

### 10. Nursing Services

- \_\_\_ Health Science Education
- \_\_\_ Medical Therapeutics
- \_\_\_ Anatomy & Physiology
- \_\_\_ Nursing Education

### Human Services

11. Fashion Design
  - \_\_\_ Visual Art I
  - \_\_\_ Foundations of Fashion Design
  - \_\_\_ Fashion Design
  - \_\_\_ Interior Design
12. Nutrition Services
  - \_\_\_ Introduction to Human Studies
  - \_\_\_ Nutrition Across the Lifespan
  - \_\_\_ Nutrition Science
13. Social Services
  - \_\_\_ Introduction to Human Studies
  - \_\_\_ Lifespan Development
  - \_\_\_ Family Studies

### Manufacturing

14. Advanced Manufacturing
  - \_\_\_ Principles of Manufacturing & Welding
  - \_\_\_ Advanced Manufacturing I
  - \_\_\_ Advanced Manufacturing II

### Marketing, Sales and Services

15. Marketing
  - \_\_\_ Introduction to Business & Mktg
  - \_\_\_ Marketing I
  - \_\_\_ Marketing II

### Transportation

16. Collision Repair Technology
  - \_\_\_ Introduction to Collision Repair
  - \_\_\_ Collision Repair: Non-structural
  - \_\_\_ Collision Repair: Painting & Refinishing