

For present 9th through 11th grade students

AGRICULTURE

FFA will be an Integral part of ALL agriculture classes.

Suggested Course Sequencing

General Agriculture

Grade	Course Name	Credit
10	Advanced Principles of Agriculture and/or Livestock Management	1 each
11	Greenhouse Management and/or Leadership and Communication	1 each
12	Agriculture Mechanics and Maintenance I and/or Aquaculture/Hydroponics and/or Cooperative Methodology	1 each

Horticulture

Grade	Course Name	Credit
10	Landscaping and Turf Management and/or Aquaculture/Hydroponics	1 each
11	Greenhouse Management and/or Leadership and Communication	1 each
12	Plant Biotechnology and/or Cooperative Methodology	1 each

Animal Science

Grade	Course Name	Credit
9	Principles of Agricultural Science or AgriScience or Honors AgriScience	1 each
10	Advanced Principles of Agricultural Science or Livestock Management and/or Horse Science	1 each
11	Small Animal Care and/or Leadership Development	1 each
12	Principles of Veterinary Science and/or Cooperative Methodology	1 each

Landscaping

Grade	Course Name	Credit
10	Landscaping and Turf Management and/or Aquaculture/Hydroponics	1 each
11	Greenhouse Management and/or Leadership Development	1 each
12	Plant Biotechnology and/or Cooperative Methodology	1 each

Agriculture Mechanics

Grade	Course Name	Credit
10	Agricultural Mechanics and Maintenance I and/or Adv. Principles of Ag.	1 each
11	Agricultural Mechanics and Maintenance II and/or Leadership Development	1 each
12	Agricultural Mechanics and Maintenance III and/or Cooperative Methodology	1 each

Forestry / Wildlife

Grade	Course Name	Credit
10	Forestry or Advanced Principles of Agriculture	1 each
11	Wildlife Management and Recreation or Leadership and Communication	1 each
12	Plant and Soil Science or Cooperative Methodology	1 each

All classes in Agriculture require students to pass a safety test with a score of 100 and have proof of insurance before they are allowed in the shop/lab.

ADVANCED PRINCIPLES OF AGRICULTURAL SCIENCES (5155)

Open to grades 10, 11, and 12

1 credit

Prerequisite: 1 credit in AgriScience or 1 credit in Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), with a grade of at least 80 or teacher recommendation

For present 9th through 11th grade students

Board-approved materials fee may be collected.

Builds on the fundamental skills developed in Agriscience and Fundamentals of Agriculture to allow students to be active in advanced concepts regarding plant and animal science, agriculture mechanics and leadership development.

AGRISCIENCE (5171)

Open to grade 9 only

1 credit

Board-approved materials fee may be collected.

Principles of Agricultural Sciences (formerly Fundamentals of Agriculture) and Principles of Horticultural Sciences may not be taken before, with or after this course.

AgriScience consists of standards to prepare students for biology and subsequent sciences for the university bound student. The content area covers ecology, biological processes, sexual and asexual reproduction and a study of the chemical and physical laws that govern life. This course helps students understand the important role science serves as the agricultural industry advances to meet the challenges of the 21st century.

AGRICULTURAL BUSINESS/FINANCE (5153)

Open to grades 11 and 12

1 credit

Prerequisite: Agriscience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture) with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Agricultural Business/Finance contains standards that address the economic principles necessary for a successful business. As technology improves the ability to communicate, marketing and production must change in order for industries to remain competitive.

Agricultural Marketing and Sales (5150)

Open to grades 10, 11 and 12

1 credit

Prerequisites: Agriscience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture) with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

The course introduces students to the different types of agricultural businesses found in local communities and the skills businesses are looking for in employees. Students will enhance skills and techniques utilized in agricultural marketing and sales agreements to meet the needs of consumers and employers.

Honors AgriScience (5171H)

Open to grade 9 only

1 credit

Pre-requisite: An "93" average in 8th grade science OR recommendation of the 8th grade science teacher.

AgriScience, Principles of Agricultural Sciences and Principles of Horticultural Sciences cannot be taken before, with or after this class.

AgriScience consists of standards to prepare students for biology and subsequent sciences for the university bound student. The content area covers ecology, biological processes, sexual and asexual reproduction and a study of the chemical and physical laws that govern life. This course helps students understand the important role science serves as the agricultural industry advances to meet the challenges of the 21st century.

AGRICULTURAL MECHANICS AND MAINTENANCE 1 (5151)

Open to grades 10 and 11

1 credit

Board-approved materials fee may be collected.

Includes standards to prepare students for operational procedures for a shop or a home environment. Students learn basic skills in areas ranging from welding and electricity to land measuring to plumbing. Students will be instructed on the FFA student organization, program of activities, basic leadership skills, and supervised agriculture experience programs.

AGRICULTURAL MECHANICS AND MAINTENANCE 2 (5152)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Agricultural Mechanics and Maintenance 1

Board-approved materials fee may be collected.

Includes basic information and laboratory activities on small engines, tractors, and agricultural equipment maintenance, repair and overhaul. Standards address competencies for electrical motors, hydraulic systems and fuel-powered engines.

AGRICULTURAL MECHANICS AND MAINTENANCE 3 (5178)

Open to grades 11 and 12

1 credit

Prerequisite: Agriculture Mechanics and Maintenance 1 or 2, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Includes basic technologies of metal fabrication and agriculture structures. Also includes hot/cold metal work, and material computation, electric wiring and codes, blueprint reading and drawing and selection of appropriate materials for projects.

Animal Biotechnology (5186)

Open to grades 11 and 12

1 credit

Prerequisites: Agriscience, Principles of Agricultural Sciences (formerly Fundamentals of Agriculture) or Principles of Horticultural Sciences with a grade of at least 80 or teacher recommendation and Biology

Board-approved materials fee may be collected.

This course is to prepare students with interests in higher-level, science-based animal agriculture. Students will study rigorous standards related to taxonomy, anatomy and physiology, body systems, reproduction, hormonal and immune systems, nutrition, heredity and genetics (molecular biology), health, agrimedcine, well-being, DNA and biotechnology, and emerging technologies associated with companion and production animals.

AQUACULTURE/HYDROPONIC (5159/5179)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Agriscience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

This course focuses on standards that challenge students to plan for future food needs using advanced technologies and less space. It includes career choices, production, marketing, anatomy, and water quality and leadership skills needed for careers in agriculture. Hydroponics blend environmental and aquaculture plans for future food needs on less space.

COOPERATIVE METHODOLOGY (5180)

2 credits 1 for classroom and 1 for internship

Open to grades 11 and 12

A student must be enrolled in another Agriculture or a Career Technical Education class that is related to their job.

Prerequisite: Enrolled in an Agriculture course.

Board-approved materials fee may be collected.

This course is designed to help student with their SOEP.

FLORAL DESIGN (5164)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Agriscience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

This course is designed to introduce principles in floral design, arrangements, corsages, bonsai care, landscape architectural design, and landscaping and grounds maintenance. Also, this course will introduce students to the career opportunities in the floral industry.

FORESTRY (5165)

Open to grades 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

Develops student knowledge of forestry technology as it progresses. Students will develop skills in producing, harvesting, marketing, developing forestry products, and evaluate practices insuring the protection of natural resources found in the forest ecosystem.

GREENHOUSE MANAGEMENT (5167)

Open to grades 10, 11, and 12

1 or 2 credits

Prerequisite: Agriscience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Develops basic skills and general knowledge of greenhouse operations. Includes standards regarding environmental needs of plants, government regulations of greenhouses and management skills needed for successful greenhouse production.

HORSE SCIENCE (5168)

Open to grades 10, 11, and 12

1 credit

Prerequisites: AgriScience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Designed to develop basic understanding of equine handling, health, maintenance, reproduction, selection and management. Provides students with a fundamental understanding in animal science to prepare them for advanced courses in the animal science sub-cluster.

LANDSCAPING AND TURF MANAGEMENT (5163)

Open to grades 10, 11, and 12

1 credit

Prerequisites: Principles of Horticultural Sciences, Agriscience (HQ), or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture) with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Landscaping and Turf Management includes standards to prepare students for creating beautiful environments for homes and businesses. This course includes site analysis and preparation, landscape drawing, plant selection, and installation. Maintenance of healthy attractive landscapes and turf areas will be emphasized. With the increase of urban sprawl these career opportunities are increasing daily. Plant science and leadership skills taught in this class will prepare students to meet the demands of this exciting industry.

LEADERSHIP and COMMUNICATIONS [formerly Leadership Development] (5169)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Leadership and communication analyzes attributes and capabilities of those in leadership positions; to assist students in the development of their communication skills and interpersonal relationships and other related skills. Most jobs are lost or gained because of the leadership and communication ability a person has. As we enter the 21st century and a global market place, these skills will become more important as an asset for career success.

LIVESTOCK MANAGEMENT (5177)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Agriscience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Prepares students for a career in animal science. Includes basic knowledge of animal anatomy, nutrition, health, genetics, and animal facilities. Students will evaluate the effect a livestock management program has on the local ecosystem.

PLANT BIOTECHNOLOGY (5175)

Open to grades 11 and 12

1 credit

Prerequisites: Agriscience (HQ), Principles of Agricultural Sciences (formerly Fundamentals of Agriculture) or Introduction to Horticultural Sciences with a grade of at least 80 or teacher recommendation and Biology

Board-approved materials fee may be collected.

This course is to prepare students with interests in higher-level, science-based plant agriculture. Students enrolled in this course will study rigorous standards related to the principles of plant growth, cell structure and functions, heredity and genetics (molecular biology), plant breeding and improvement, hormones and growth regulators, chemical nature of plant life, flower structure and function, seed formation and germination, DNA and biotechnology, and emerging technologies. Students will use scientific investigation to determine a plant problem. FFA and supervised experience will be included as appropriate.

PRINCIPLES OF AGRICULTURAL SCIENCES [formerly Fundamental of Agriculture] (5154)

Open to grades 9, 10 and 11

1 credit

Board-approved materials fee may be collected.

AgriScience, Honors Agriscience and Principles of Horticultural Sciences may not be taken before, with or after this course.

Designed to develop basic theories and principles involved in animal science, agribusiness, agricultural mechanics, and natural resource management, careers, leadership, and an active FFA organization. The standards prepare students to choose among agricultural careers for the 21st century.

PRINCIPLES OF HORTICULTURAL SCIENCES (5184)

Open to Grades 9, 10, or 11

1 Credit

No Prerequisite

Board-approved materials fee may be collected.

Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), Agriscience and Honors Agriscience may not be taken before, with or after this course.

This course introduces students to the vast areas of the horticulture industry. Topics include leadership, greenhouse management, garden center operations, floriculture, nursery operations, landscaping, and turf grass management. An introduction to plant and soil science is included as a necessary foundation to the success of today's horticulturalist.

VETERINARY SCIENCE (5176)

Open to grades 11 and 12

1 credit

Prerequisites: Biology and AgriScience or Small Animal Care; or Biology and Principles of Agricultural Sciences (formerly Fundamentals of Agriculture) or Small Animal Care, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Advanced standards will familiarize students with competencies required in a veterinary science career. The animal health industry continues to grow in importance and prominence as more people purchase animals for pleasure and sustenance.

SMALL ANIMAL CARE (5172)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Agriscience or Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Contains objectives preparing students for careers in managing and caring for specialty and pet animals. This class will focus on such areas as: parasite control, safe animal restraint, safety in chemical application, calculating dosages, assess the benefit of neutering and spaying, animal rights vs. animal welfare.

WILDLIFE MANAGEMENT AND RECREATION (5174)

Open to grades 10, 11, and 12

1 credit

Prerequisite: 1 credit in AgriScience or 1 credit in Principles of Agricultural Sciences (formerly Fundamentals of Agriculture), a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

This course meets the needs of students desiring a basic knowledge of wildlife science and management. Wildlife management offers the hunters education program, which certifies students with the Tennessee Wildlife Resource Agency in Hunting and Firearm Safety. Students will explore careers in outdoor recreation, conservation and construction. Upon completion students will know that wildlife merits appreciation for its aesthetic, game, scientific, and commercial values to society and the environment.

Business Technology Cluster - Suggested Course Sequence

All classes in this cluster require a student to pass a safety test.

Career Cluster – Finance - Banking and Finance

Grade	Course Name	Credits
10	Accounting I	1
11	Financial Planning and/or Business Management and/or Accounting 2	1
12	Banking and Finance	1

Career Cluster – Business, Management, and Administration – Human Resources

Grade	Course Name	Credits
10	Interactive Multimedia Design	1
11	e-Business Communications	1
12	Integrated Input Technology and/or Administrative Management	1

Career Cluster – Information Technology – Web Design

Grade	Course Name	Credits
10	Web Page Design 1 – Foundations	1
11	Web Page Design 2 – Site Design	1
12	Web Page Design 3 – E-Commerce	1

Career Cluster – Information Technology - General

Grade	Course Name	Credits
10	Computer Applications, Desktop Publishing, or Interactive Multi-Media Design (alternating years)	1 each
11	Accounting 1, Business Management, Integrated Input Technology, or American Business Legal Systems/ Business Economics	1 each
12	Accounting 2, e-Business Communications, American Business Legal Systems/ Business Economics, or C++ Programming	1 each

ACCOUNTING 1 (3779)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Algebra 1

Board-approved materials fee may be collected.

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Provides students with fundamental accounting skills and theories, introducing students to accounting terms, the accounting equation, and the use of accounting in business transactions. General and specialized journals, subsidiary ledgers, worksheets, and financial statements are taught for sole proprietorship, partnerships, and corporations. Payroll and taxes are introduced along with related banking activities. Simulation sets are used to reinforce accounting procedures. Some automation will be incorporated.

ACCOUNTING 2 (3780)

Open to grades 11 and 12

1 credit

Prerequisite: Accounting 1

Board-approved materials fee may be collected.

Advanced course designed to develop skills in specialized accounting procedures such as control systems, cost accounting, managerial accounting and fundamental auditing procedures. Automation is incorporated in this class.

ADMINISTRATIVE MANAGEMENT (3737 OR 3737V)

Open to grades 10,11 and 12

1 credit

Prerequisite: Microcomputer Applications 1 with a grade of at least an 80

Board-approved materials fee may be collected.

This capstone course provides advanced training, including hands-on experiences, for students pursuing a career in business technology. Skills will be enhanced through a multi-tasking environment incorporating input technologies, information processing systems, administrative/information management, problem-solving, reasoning, team-building, time-management, business standards, feasibility studies, cost/budgeting, professional leadership, ethical and legal issues, and mathematics and communications. Production and administrative skills are developed to meet industry's standards

AMERICAN BUSINESS LEGAL SYSTEMS/BUSINESS ECONOMICS* (3719 and 3755) or (3719V and 3755V)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

This course can substitute for the required credit in Economics or Government

A study of the legal framework in which American businesses operate, including the free enterprise system in a democratic society. Students analyze the alliance between capitalism and democracy and the fundamental concepts of the various players in the economic system. Topics covered include the production, marketing, and distribution of goods and services, as well as the roles of financial institutions, the government, and the individual within the free enterprise system. Students will explore various careers related to the economy.

***This course may substitute for either United States Government or Economics.**

Banking and Finance (3756)

Open to grades 11 and 12 by Special Permission via Application Submission

1 credit

Board-approved materials fee may be collected.

Banking and Finance is a course designed to challenge the student with real banking and financial situations through a partnership with a local financial institution that would bring resources of mentors, seminars, and hands on experience with the day-to-day operations of a bank. Enrollment in this course provides students with finance and special job skills in banking and financial institutions. Course responsibilities include a student-operated enterprise and special projects to help the day-to-day operation of the school facility.

BUSINESS MANAGEMENT (3707)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Examines areas, including business organization, ethical and legal responsibilities, communication, decision-making, personnel, safety, professional development, and related careers. Students develop a foundation in the many activities,

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problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities.

COMPUTER PROGRAMMING: C++

Open to grades 11 and 12

1 credit

Prerequisite: Keyboarding skills

Board-approved materials fee may be collected.

Designed to give the student an introduction to C++ Programming. Students will utilize the commands, statements, and procedures of this language to develop computer programs.

DESKTOP PUBLISHING (3741)

Open to grades 11 and 12

1 credit

Prerequisite: Document Design and Production or Microcomputer Applications 1 with a grade of at least an 80

Board-approved materials fee may be collected.

The student will develop skills in electronic publishing design, layout, composition, and photo journalism. Content provides the opportunity to acquire marketable skills and to prepare for gainful employment and/or entry into postsecondary education institutions in the graphic communications industry. Problem-solving projects simulate those found in the graphic communications industry.

DOCUMENT DESIGN AND PRODUCTION (3775/3727) or (3775V/3727V)

Open to grades 9, 10, 11 and 12

1 credit (Cannot be taken if you have had any other computer class or if you scored 80 or above on the written portion of the 8th Grade Proficiency Test and have a minimum speed of 30 net wpm)

Board-approved materials fee may be collected.

***This course articulates at selected colleges for 3 credit hours of BUS S111-Keyboarding Word Processing.**

Designed to develop keyboarding skills, layout, and production of business and academic documents. Formatting, typography, and layout design concepts are applied in the production of business letters, forms, reports, and tables. Industry production standards using Microsoft applications are emphasized. Simulated projects are used to develop problem-solving skills.

e-BUSINESS COMMUNICATIONS (3704)

Open to Grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Addresses the use of the Internet as a means of developing business communications, ethics, security issues, and on-line research methods with a focus on education and career planning, electronic resumes, and work portfolios. Students research and develop a plan that will lead them toward their career goals and make them competitive in a continuously changing workplace.

FINANCIAL PLANNING (3717 or 3717V)

Open to grades 10, 11 and 12

1 credit

Board-approved materials fee may be collected

Financial Planning is a course designed to develop skills in the use of financial principles in making business decisions. Students will research job qualifications and employment opportunities in finance. The course includes a study of the allocation of financial resources, the effects of finance and credit institutions on the business community and the impact of financial decisions on the consumer market. Ethical issues will be presented in this course as well as money management techniques.

INTERACTIVE MULTIMEDIA DESIGN (3746)

Open to grades 10, 11 and 12

1 credit

Prerequisite: Document Design and Production with a grade of at least an 80 or Microcomputer Applications 1

Board-approved materials fee may be collected.

Offered alternating years. Available 2007/2008.

Students will create various presentations that require imported data/graphics, digital audio, images, and video clips. It will cover electronic systems and software programs that utilize graphic design, page composition, image conversion, and video editing. Students will use scanners, digital cameras, and CD burners with computers to produce interactive multimedia presentations, which will be saved to an electronic portfolio. Individual and team development will also be stressed using project-based activities.

COMPUTER APPLICATIONS (3718) or (3718V)

Open to grades 9, 10, 11 and 12

1 credit

Prerequisite: Document Design and Production with a grade of at least an 80 or *acceptable grade on 8th Grade Proficiency Test

Board-approved materials fee may be collected.

Teaches intermediate skills using current Microsoft applications. Includes the study of Internet skills, word processing, spreadsheets, database, graphics, desktop publishing, multimedia presentation design, Web pages, and networking functions. Students learn marketable skills and work toward industry-recognized MOUS Certification. Multi-tasking, prioritizing and time-management skills will be stressed utilizing project-based assignments.

***Proficiency Test: Must have scored 80 or above on the written portion of the 8th Grade Proficiency Test and have a minimum speed of 30 net wpm.**

INTEGRATED INPUT TECHNOLOGY (3730/3730V)

Open to grades 9, 10, 11 and 12

1 credit

Prerequisite: Computer Applications with a grade of at least an 80.

Board-approved materials fee may be collected.

*** This course articulates at selected colleges for 3 credit hours of CIS 100**

An advanced course in which students learn necessary skills in problem solving, using a variety of input technologies such as advanced keyboarding, scanning, speech recognition, and handwriting recognition. The course focuses on accountability, competency, and MOUS Certification preparation. Students work toward the attainment of high-level, employable competencies.

PERSONAL FINANCE (3795)

Open to grades 9, 10, 11 and 12

1 credit

Board-approved materials fee may be collected.

This course is designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as savings and investing.

PRINCIPLES OF BUSINESS (3709)

Open to grades 9, 10, 11 and 12

1 credit

Board-approved materials fee may be collected.

Designed for students interested in acquiring introductory business information for personal use and as an initial course for students planning a career in business. Course content emphasizes consumerism, financial management, insurance, and career opportunities.

WEB PAGE DESIGN 1 - FOUNDATIONS (3758/3758V)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Document Design and Production or *acceptable grade on 8th Grade Proficiency Test

Board-approved materials fee may be collected.

Provides students with work-related Web design skills needed for advancement into post-secondary education or industry. Course content includes an introduction to: Internet basics (Web browsers, e-mail, search engines, e-commerce), creating Web pages using Hypertext Markup Language (HTML), and networking (LANS, WANS, servers). The course

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skills and objectives provide for and follow the framework provided for the Certified Internet Webmaster “Foundations Series” national certification examination.

*Proficiency Test: Must have scored 80 or above on the written portion of the 8th Grade Proficiency Test and have a minimum speed of 30 net wpm.

WEB PAGE DESIGN 2 - SITE DESIGN (3759/3759V)

Open to grades 9, 10, 11 and 12

1 credit

Prerequisite: Web Page Design 1 - Foundations

Board-approved materials fee may be collected.

Designed to build on skills learned in Web Page Design 1, this course teaches students how to create and manage Web sites. Commercial Web design software is used to edit graphic images for the Web, create animation, and incorporate multimedia into Web pages. The course skills and objectives provide for and follow the framework provided for the Certified Internet Webmaster “Site Designer” national certification examination.

WEB PAGE DESIGN 3 - E-COMMERCE (3760/3760V)

Open to grades 10, 11 and 12

1 credit

Prerequisite: Web Page Design 2 - Site Design

Board-approved materials fee may be collected.

Designed to build on skills learned in Web Page Design 2, this course teaches students how to conduct business online and how to manage the technological issues associated with constructing an electronic-commerce Web site. Course content examines Web design in e-commerce with marketing, customer relations, and commercial Web site publication. The course skills and objectives provide for and follow the framework provided for the Certified Internet Webmaster “E-Commerce Designer” national certification examination.

Some of the courses described above can be articulated at Volunteer State Community College, Nashville State Tech, Tennessee Technology Center at Hartsville, and the Tennessee Technology Center at Nashville. Students interested in attending any of these post-secondary institutions must assume the responsibility of determining whether they meet the criteria to articulate. Contact your guidance counselor for details.

FAMILY AND CONSUMER SCIENCES

F.C.C.L.A. is an integral part of all classes.

All of the classes in Family and Consumer Science require students to pass a safety test with a score of 100 and have proof of insurance before they are allowed in the shop/lab.

Career Cluster – Teaching Training Services 5.31

Grade	Course Name	Credits
9	Computer Applications	1
10	5603 FACS	1
11	5610 Child and Lifespan Development	1
12	5622 Teaching as a Profession	1

Career Cluster – Fashion Design 3.33

Grade	Course Name	Credits
9	5603 Family & Consumer Sciences	1
10	5621 Fashion Design and Merchandising	1
11	5619 Textiles and Apparel	1

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12	5623 Life Connections	1
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Career Cluster – Interior Design 2.0

Grade	Course Name	Credits
9	5603 Family & Consumer Sciences	1
10	5619 Textiles and Apparel / 5623 Life Connections	1
11	5614 Housing	1
12	5611 Interior Design	1

Career Cluster – Consumer Services - 10.5

Grade	Course Name	Credits
9	5603 Family & Consumer Sciences	1
10	5605/5602 Consumer Economics	1
11	5613 Personal Finance	1
12	5623 Life Connections	1

Career Cluster – Counseling and Mental Health Services - 10.2

Grade	Course Name	Credits
9	5603 Family & Consumer Sciences	1
10	5606 Family & Parenting / 5610 Child and Lifespan Development	1
11	5623 Life Connections	1
12	5609 Nutrition and Foods	1

Career Cluster – Family and Community Services -10.3

Grade	Course Name	Credits
9	5603 Family & Consumer Sciences	1
10	5606 Family & Parenting Education	1
11	5610 Child and Lifespan Development / 5609 Nutrition and Foods	1
12	5623 Life Connections	1

Career Cluster – Nutrition Counseling

Grade	Course Name	Credits
9	5603 Family & Consumer Sciences	1
10	5609 Nutrition & Foods	1
11	5615 Nutrition Science	1
12	5610 Child and Lifespan Development	1

CHILD AND LIFESPAN DEVELOPMENT (5610)

Open to grade Level(s): 10-11-12

1 credit

Prerequisite: Family & Consumer Sciences (FACS)

This course prepares students to understand the physical, social, emotional and intellectual growth and development throughout the lifespan. Experiences such as laboratory observations, job shadowing, service learning and laboratory participation will enhance the learning process. Instructional content includes child development theories and research; prenatal development; infants and toddlers; preschool years; middle childhood; adolescence; adulthood; geriatrics; death and dying; careers; and leadership, citizenship and teamwork.

CONSUMER ECONOMICS (5602)

Open to grades 10, 11, and 12

1 credit

This course may substitute for the required course of Economics. **Board-approved materials fee may be collected.**

This course does not meet NCAA requirements.

Study of the United States economic system. Students learn to function as informed consumers, use credit responsibly, make decisions about individual and family financial matters, recognize influences of advertising, use goods and services, plan insurance needs, plan for financial literacy, and assess and allocate resources. Academic integration and Gateway reinforcement are integral parts of the curriculum.

FAMILY AND CONSUMER SCIENCES (5603)

Open to grades 9 and 10

1 credit

Board-approved materials fee may be collected.

Focuses on learning to make decisions; set priorities; understanding physical and emotional development during adolescence; coping with pressures; managing personal resources; using consumer information; developing positive interpersonal relationships; establishing a satisfying living environment; planning for a healthy lifestyle using food preparation, nutrition and fitness; meeting clothing needs; and exploring career options. Also includes the introduction of F.C.C.L.A. (Family, Careers, Community Leaders of America), the student organization. Students must score 100 on safety test for placement in this class. Academic integration and Gateway reinforcement are integral parts of the curriculum.

FAMILY AND PARENTING (5606)

Open to grades 10 and 11

1 credit

Board-approved materials fee may be collected.

Family and Parenting Education is a specialized course which emphasizes the significance of the family as a basic unit of society and its impact on the well-being of individuals and society. The major focus of the course is preparation for marriage, parenthood, and the responsibilities for successful management of family life. The integration of Family, Career and Community Leaders of America (FCCLA) provides student opportunities for leadership development, personal growth, and school/community involvement.

FASHION DESIGN AND MERCHANDISING (5621)

Open to grades: 10-11-12

1 credit

Prerequisite: Family & Consumer Sciences (FACS)

This course is a specialized course designed to introduce students to the world of fashion. Areas of study include fashion fundamentals, principles and elements of design; career options and preparation; product selection and maintenance; and consumer strategies. Instruction includes academic integration and technology applications.

Housing (5614)

Prerequisites: Family & Consumer Sciences (FACS)

1 credit

Open to grades: 10-11-12

This course is a specialized course designed to prepare students to understand the influences affecting housing decisions. Emphasis is on using available resources effectively to meet individual housing needs.

INTERIOR DESIGN (5611)

Prerequisite(s): Family & Consumer Sciences (FACS) or Housing

1 credit

Open to grades: 10-11-12

This course is a specialized course focusing on the interior of living environments. The course includes instruction in the fundamentals of interior design; the application of skills, knowledge, and design principles to the living environment; interior design occupations and careers; universal and "green" design; and professional and marketing skills. Instruction includes academic integration and technology applications.

LIFE CONNECTIONS (5623)

Open to grades: 11-12

1 credit

Prerequisites: None

This is a course designed to assist students in making a successful transition from high school into the post high school environment. Students will be empowered to take action for the wellbeing of themselves and others as they effectively manage the roles and responsibilities created by family, career and community interactions. The role of communication in establishing and maintaining healthy interpersonal relationships is emphasized. Skills related to decision making, problem solving, critical and creative thinking, technology, and workplace readiness practiced in *Life Connections* will provide students with an understanding of how to plan for and manage careers in an ever-changing workplace.

NUTRITION AND FOODS (5609)

Open to grades 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

Focuses on the social and cultural significance of food. Includes units in learning to be a wise consumer; using reliable nutrition information; managing food needs for self and others, understanding the relationship of nutrition to growth and health; exhibiting safe food practices and use of kitchen tools and appliances. Academic integration and Gateway reinforcement are integral parts of the curriculum.

NUTRITION SCIENCE (5615)

Open to grades 11 and 12

1 credit

Prerequisite: Biology or Chemistry or Physical Science

Board-approved materials fee may be collected.

Focuses on the science of food utilization and relates scientific concepts and processes to practical applications in nutrition. Students use scientific methods in laboratory experiments to facilitate the understanding of the human body, nutrition, and science. Academic integration and Gateway reinforcement are integral parts of the curriculum. Co-taught academically and integrated by team approach between Family and Consumer science and Science departments. Due to the high-grade level restriction, it is recommended as a science for student pursuing careers in medicine, physiology and food marketing research.

PERSONAL FINANCE

Open to grades 11 and 12

1 credit

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 covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions. The co-curricular student organization will provide students with opportunities for leadership development, personal growth, and school/community involvement.

TEXTILES AND APPAREL (5612)

Open to grades 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

Students learn to evaluate influences upon clothing needs; enhance self through clothing decisions; use textile consumer information; select and care for textile products; and develop basic clothing construction skills. Academic integration and Gateway reinforcement are integral parts of the curriculum.

Teaching as a Profession (5622)

Open to grade: 12

1 credit

Prerequisite(s): Child and Lifespan Development and Life Connections

Teaching is the profession that makes other professions possible.—Author unknown

For present 9th through 11th grade students

This is a course designed to capture the interest of secondary students as potential teachers, introduce students to teaching as a profession, and foster respect for the teaching profession. Students will gain knowledge and skills that will establish a foundation for a successful pathway to a teaching career. Content standards guide students to discover challenges, opportunities, and rewards of a teaching career. Content includes history and current issues of education; teacher roles, responsibilities, and characteristics; self exploration and understanding the teacher and learning processes; human growth and development; teaching career opportunities and preparation; and components of instruction. Students will learn through classroom observations and experiences, student organization activities, and the development of a professional portfolio.

FAMILY AND CONSUMER SCIENCES OCCUPATIONAL

EARLY CHILDHOOD EDUCATION CAREERS

All classes in this cluster require students to pass a safety test.

Career Cluster – Early Childhood Development and Services -10.1

Grade	Course Name	Credits
10	5650 Early Childhood Education Careers I	1
11	5660/5662 Early Childhood Education Careers II	1
12	5661/5662 Early Childhood Education Careers III	1

EARLY CHILDHOOD EDUCATION CAREERS 1 (5650) or (5650V)

Open to grades 10, 11 and 12

1 credit

Board-approved materials fee may be collected.

Designed to inform students of options for employment in related occupations. To demonstrate knowledge of the competencies obtained during the first year level course, each student will be expected to complete a day care project (a written simulation of starting their own child care facility). To promote group participation and develop leadership skills, F.C.C.L.A. (Family, Career, and Community Leaders of America), the youth organization, is an integral part of the curriculum. Academic integration and Gateway reinforcement are integral parts of the curriculum.

EARLY CHILDHOOD EDUCATION CAREERS 2 (5660) or (5660AV)

Open to grades 11 and 12

1 credit - (1st or 2nd Block / Spring Term ONLY)

Prerequisite: Early Childhood Education Careers 1, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Assists students in the preparation for employment in related occupations using knowledge and skills in personal management, development, and improving understanding of children's growth patterns. To evaluate skills/abilities of the students, a 10 week nursery school, "Tot Time" / "Nursery School", is operated on-site during March, April, and May. During this one-and-one-half-hour four days per week practicum, students (employees) perform daily skills/abilities needed to provide a learning environment for 2 - 5 year old children. To promote group participation and develop leadership skills, F.C.C.L.A. is an integral part of the curriculum. Academic integration and Gateway reinforcement are integral parts of the curriculum.

EARLY CHILDHOOD EDUCATION CAREERS 3 (5661BV)

Open to grades 11 and 12

1 credit (1st or 2nd Block / Spring Term ONLY)

Prerequisite: Early Childhood Education Careers 2 with an average of 80 or above or teacher recommendation

Board-approved materials fee may be collected.

Designed as a "follow-up" to Early Childhood Education Careers 1 and 2 with more emphasis on awareness and employment in related occupations. To further advance and emphasize skills/abilities of the students, "Tot Time" will be a practicum to reinforce students' (employees') skills/abilities needed to work in the field of child care. To further promote

For present 9th through 11th grade students

group participation and develop leadership skills, F.C.C.L.A. will continue to be an integral part of the curriculum. Academic integration and Gateway reinforcement are integral parts of the curriculum.

Some of the courses described above can be articulated at Volunteer State Community College, Nashville State Tech, Tennessee Technology Center at Hartsville, and the Tennessee Technology Center at Nashville. Students interested in attending any of these post-secondary institutions must assume the responsibility of determining whether they meet the criteria to articulate. Contact your guidance counselor for details.

HEALTH SCIENCE AND TECHNOLOGY

HOSA (HEALTH OCCUPATIONS STUDENTS OF AMERICA) will be an integral part of ALL health science classes.

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Biotechnology Research & Development	5504 Health Science Education	5511 Diagnostic Medicine	5513 Biomedical Applications	5514 Forensic Science
			5509HQ 5512 Anatomy & Physiology	

All classes in this cluster require a student to pass a safety test.

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Diagnostic Services	5504 Health Science Education	5506 Medical Therapeutics	5511 Diagnostic Medicine	5501 Clinical Internship
		5503 Rehabilitative Therapies	5509HQ 5512 Anatomy & Physiology	5514 Forensic Science

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Health Informatics 8.3	5504 Health Science Education	5505 Health Informatics	5511 Diagnostic Medicine	5501 Clinical Internship
		5503 Rehabilitative Therapies	5509HQ 5512 Anatomy & Physiology	

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Therapeutics Services 8.1	5504 Health Science Education	5506 Medical Therapeutics	5510 Emergency Medical Services	5507 Nursing Education
		5503 Rehabilitative Therapies	5509/5512 Anatomy & Physiology	5501 Clinical Internship

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Support Services 8.4	5504 Health Science Education	5506 Medical Therapeutics	5500 Support Services	5501 Clinical Internship
		5503 Rehabilitative Therapies		5507 Nursing Education

ANATOMY AND PHYSIOLOGY (5509) or (5509V)

Open to grades 11 and 12

1 credit

Prerequisites: Biology and Chemistry

This course will substitute for a science credit.

Board-approved materials fee may be collected.

Designed for students planning to pursue a health care profession; includes the study of the normal body defenses against disease processes, the effects of abnormal factors on the normal functioning of the body, the comparison of anatomical structures and physiological functions of each body system, and the treatments for system diseases.

BIOMEDICAL APPLICATIONS (5513) or (5513V)

Open to grades 11 and 12

1 credit

Prerequisites: Biology and Chemistry

Board-approved materials fee may be collected.

An overview of biomedical applications. Topics covered include understanding laboratory procedures fundamental to biomedical research, which include D.N.A., protein purification, and cell and tissue culture. Additional topics include communication skills, the history and development of the field of biomedical research and understanding the legal environment and technology transfer of biomedical research.

CLINICAL INTERNSHIP (5501)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Students must be currently or previously enrolled in a Health Science class in order to be enrolled in this class.

Students may choose to complete a clinical internship after completing Medical Therapeutics, Diagnostic Medicine, Medical Informatics, Support Services, Rehabilitative Therapies, Nursing education, or Emergency Medical Services. The internships are designed to be completed in a hospital, nursing home, rehab center, medical office, or other health care facility.

DIAGNOSTIC MEDICINE (5511) or (5511V)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Designed for students interested in medicine. Includes the study of cardiology, imaging, the medical laboratory, radiology, and other forms of diagnostic medicine. Upon successful completion, students will be able to perform basic medical diagnostic skills.

EMS, EMERGENCY MEDICAL SERVICES (5510) or (5510V)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Provides students with the opportunity to gain the knowledge, skills and confidence to give appropriate care when called to help a victim of injury or sudden illness. Designed for students who are interested in a better understanding of emergency medical technicians, paramedics, ER nurses, and other careers associated with emergency management.

FORENSIC SCIENCE (5514)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Provides students with an overview of how science is applied to solving crimes. Topics including history of forensic sciences, collecting of evidence, analyzing results, and hands-on applications of many laboratory techniques used in solving crimes and identifying people and future careers. Students will participate in a staged crime scene to apply knowledge and skills gained.

HEALTH INFORMATICS (5505)

Open to grades 10, 11 and 12

1 credit

Board-approved materials fee may be collected.

This course will provide knowledge of ways to document an individual care in the home, hospital, long-term care, outpatient, and others. Careers could include medical records, health management, risk management coordinator, computer operator, patient advocate, clinical department director, data analyst and others.

HEALTH SCIENCE EDUCATION (5504) or (5504V)

Open to grades 9, 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

This course is designed as the first course a student should take if they are interested in being in the Health Care profession. Includes the study of health careers, career success, leadership development through Health Occupation Students of America (HOSA) activities, basic nutrition, diet therapy, safety measures, applications of metric systems, environment/community health, growth and CPR and first aid.

MEDICAL TERMINOLOGY (5590) (Dual Enrollment with Vol State)

Open to grade 12

1 credit

Prerequisite: Health Science Education and Medical Therapeutics

Board-approved materials fee may be collected.

A study of the language of the Allied Health sciences and medicine with emphasis on body systems, prefixes, suffixes, root terms, pronunciation and spelling. Upon completion of the course the student will be able to: analyze words structurally; correlate an understanding of the word elements with basic anatomy, physiology, and disease processes of the body; and recognize correct spelling and pronunciation.

MEDICAL THERAPEUTICS (5506) or (5506V)

Open to grades 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

Explores career opportunities and issues in health care while focusing on leadership development, anatomy and physiology, medical microbiology, pharmacology, and basic skills. Upon successful completion of this course, students will have basic skills, such as checking blood pressure, and will be certified in the lifesaving techniques of CPR and first aid.

NURSING EDUCATION (5507) or (5507V)

Open to grade 12

1 credit

Prerequisite: A minimum of 2 Health Science classes

Board-approved materials fee may be collected.

Parent and Student informational meeting required prior to start of class. Date to be announced.

Focuses on the study of dealing with direct bedside nursing care. Includes clinical experience and supervised practice (for selected students) in a nursing home setting. Upon successful completion, the student will be eligible to take the state exam for Certified Nursing Technician.

REHAB THERAPY (5503) or (5503V)

Open to grades 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

Designed for students interested in exploring careers associated with rehabilitation. Includes the study of bones, muscles, joints, and nerves in the human body; correct body alignment; routine range of motion exercises; personal fitness; exercise physiology; or recreational therapy. Also includes information for students interested in speech therapy, music therapy, occupational therapy and athletic training.

SUPPORT SERVICES (5500) or (5500V)

Open to grades 10, 11 and 12

1 credit

Board-approved materials fee may be collected.

For present 9th through 11th grade students

In this course you will learn knowledge and skills necessary to provide an environment for the delivery of health care. Careers could include central supply, facility maintenance, food service, interior decorating and others.

Some of the courses described above can be articulated at Volunteer State Community College, Nashville State Tech, Tennessee Technology Center at Hartsville, and the Tennessee Technology Center at Nashville. Students interested in attending any of these post-secondary institutions must assume the responsibility of determining whether they meet the criteria to articulate. Contact your guidance counselor for details.

MARKETING EDUCATION

All classes in this cluster require students to pass a safety test.

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Hospitality and Tourism	Foundations of Hospitality	Marketing 1	Travel and Tourism	Hospitality Management or Sports and Entertainment Marketing or WBL

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Marketing	Exploration in Marketing	Marketing 1	Marketing 2	Retail Operations or Wholesale Logistics or Advertising and Public Relations or WBL

Program of Study	9 th Grade	10 th Grade	11 th Grade	12thGrade
Business Ownership/ Entrepreneurship	Exploration in Marketing	Marketing 1	Marketing 2	Entrepreneurship or WBL

ADVERTISING & PUBLIC RELATIONS (5016)

Open to grades 11 and 12

1 credit

Pre-requisite: 1 credit in Marketing 1

Board-approved materials fee may be collected.

Advertising and Public Relations is designed to develop an understanding of concepts and strategies needed to communicate information about products, services, ideas and/or images to achieve a desired outcome.

EXPLORATION OF MARKETING AND MANAGEMENT (5014)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Board-approved materials fee may be collected.

This course is designed to introduce and provide an overview of marketing, management, and related employment opportunities. Students will explore important marketing concepts, functions, communication, and interpersonal skills necessary for marketing and management careers.

ENTREPRENEURSHIP/INTERNSHIP (5005V) or (5005)

Open to grade 12

2 credits 1 credit for classroom and 1 credit for internship

Prerequisite: 1 credit in any marketing course and a minimum G.P.A. of 80

Board-approved materials fee may be collected.

This course will substitute for the required course of economics.

For present 9th through 11th grade students

Provides students the opportunity to analyze and evaluate the various aspects of business ownership in today's marketplace. Students will also be involved in the actual process of developing a business plan and determining its opportunities for success. Students are assigned to co-op based on application completion, reference checks, and attendance and academic records.

FOUNDATIONS OF THE HOSPITALITY INDUSTRY (5025)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Board-approved materials fee may be collected.

Introduce students to the hospitality industry, including culinary arts, hotel and restaurant management, lodging, travel, and tourism. Students will focus on the impact of the hospitality industry and consumer expectations, as well as, ethical, legal, and governmental considerations of the industry. Skills USA will be a part of classroom instruction.

MARKETING AND MANAGEMENT PRINCIPLES 1 (5000) or (5000V)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

This course will substitute for the required course of economics.

Focuses on the study of marketing concepts and their practical application. Students will examine risks and challenges which marketers face in establishing a competitive edge. Includes economics, marketing foundations/functions and human resource leadership development. Skills in communication, mathematics, economics and psychology are reinforced.

MARKETING AND MANAGEMENT 2 / INTERNSHIP (5001) or (5001V)

Open to grades 11 and 12

2 credits 1 credit for classroom and 1 credit for internship

Pre-requisite: 1 credit in Marketing 1

Board-approved materials fee may be collected.

Provides further detail of the marketing/management concepts taught in Marketing and Management 1. Students will examine challenges, responsibilities, and risk managers' face in today's workplace. Emphasizes the development of decision-making skills so that students understand the impact of management-oriented challenges. Students are assigned to co-op based on application completion, reference checks, and attendance and academic records.

PERSONAL FINANCE AND BUILDING WEALTH (5037)

1 credit

Open to grades 11 and 12

Pre-requisite: 1 credit in Marketing 1

Board-approved materials fee may be collected.

Personal Finance and Building Wealth is a course which develops student understanding and skills in such areas as types of personal finance and investments, the stock market, and stock valuation. Students acquire an understanding and appreciation of the need for saving and investing. The capstone activity of the course is the development of a diversified stock portfolio. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Application of investment strategies is an on-going component of the course.

RETAIL OPERATIONS (5022V) or (5022)

Open to grades 10, 11, and 12 (Sr. can earn an additional credit for approved internship).

1 credit

Board-approved materials fee may be collected.

This course will substitute for the required course of economics.

Offers students the opportunity to learn marketing skills needed in the fast-paced world of fashion marketing. Students will learn that fashion retailing is a significant and vital component to the United States economy. Throughout the course the student will be made aware of the importance of retailing in its various forms.

SPORTS AND ENTERTAINMENT MARKETING (5023)

1 credit

Open to grades 11 and 12

Pre-requisite: 1 credit in Marketing 1

Board-approved materials fee may be collected.

Sports and entertainment marketing will include a specialized marketing course which is designed for students to develop skills in the areas of facility design, merchandising, advertising, public relations/publicity, event marketing, sponsoring, ticket distribution, and career opportunities as they relate to the sports and entertainment industry

WHOLESALE/LOGISTICS (5020) or (5020V)

2 credits 1 for classroom and 1 for internship

Open to grades 11 and 12

1 credit for classroom and 1 credit for internship

Board-approved materials fee may be collected.

This course will substitute for the required course of economics.

This course allows students the opportunity to explore the dynamics of the wholesale-Logistics industry and its relationship to the total marketing process. This course further offers an in-depth study of the wholesale-logistics operations, including wholesaling types, services, functions and careers. The format emphasizes technology, team building, personal development, participatory learning and business/community interaction.

Some of the courses described above can be articulated at Volunteer State Community College, Nashville State Tech, Tennessee Technology Center at Hartsville, and the Tennessee Technology Center at Nashville. Students interested in attending any of these post-secondary institutions must assume the responsibility of determining whether they meet the criteria to articulate. Contact your guidance counselor for details.

TRADES AND INDUSTRY

ART AND DESIGN

Suggested Course Sequence

Career opportunities include: Commercial Artist, Graphic Designer, Illustrator, Photographer, Typesetter, Art Director, Web Designer, Web Hosting, and Computer Specialist, Web Page Marketing

9 th grade	Art I – Visual Communications
10 th grade	Web Page Design 1 (Foundations) – Digital Design & Imaging
11 th grade	Web Page Design 2 (Site Designer) – Digital Design and Imaging
12 th grade	Web Page Design 2 (Site Designer) – Digital Design and Imaging

VISUAL COMMUNICATION (5759)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Prerequisite: Art 1

Board-approved materials fee may be collected.

Provides a foundation in aesthetic concepts and applies these concepts to the visual art, design, printing, and photographic industries. Course content provides the opportunity to acquire marketable skills by examining industry and career opportunities and by developing leadership, teamwork, and industry skills. Varying degrees of aesthetics are required, along with the ability to interpret many aspects of life and technology. Students need basic Windows – based computer skills.

DIGITAL DESIGN AND IMAGING (5762)

Open to grades 10, 11, and 12

2 credits

Prerequisite: Visual Communication, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

This level of graphic communications covers principles of design and general layout procedures. Content will cover electronic systems and software programs used in graphic design, page composition, image conversion and digital

For present 9th through 11th grade students

printing. Advanced knowledge and skill in graphic design and digital imaging will be enhanced in a graphic communication production laboratory facility through experiences, which simulate the graphic communication industry and school-based and work-based learning opportunities.

WEB PAGE DESIGN 1: FOUNDATIONS (5766) or (5766V)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Visual Communication, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Provides students with work-related Web design skills needed for advancement into post-secondary education or industry. Course content includes an introduction to: Internet basics (Web browsers, e-mail, search engines, e-commerce), creating Web pages using Hypertext Markup Language (HTML), and networking (LANS, WANS, servers). The course skills and objectives provide for and follow the framework provided for the Certified Internet Webmaster "Foundations Series" national certification examination.

WEB PAGE DESIGN 2: SITE DESIGNER (5767) or (5767V)

1 - 2 credits

Prerequisite: Web Page Design 1: Foundations, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Designed to build on skills learned in Web Page Design 1, this course teaches students how to create and manage Web sites. Commercial Web design software is used to edit graphic images for the Web, create animation, and incorporate multimedia into Web pages. The course skills and objectives provide for and follow the framework provided for the Certified Internet Webmaster "Site Designer" national certification examination.

WEB PAGE DESIGN 3: E-COMMERCE (5768) or (5768V)

1 credit

Prerequisite: Web Page Design 2: Site Design

Board-approved materials fee may be collected.

Designed to build on skills learned in Web Page Design 2, this course teaches students how to conduct business online and how to manage the technological issues associated with constructing an electronic-commerce Web site. Course content examines Web design in e-commerce with marketing, customer relations, and commercial Web site publication. The course skills and objectives provide for and follow the framework provided for the Certified Internet Webmaster "E-Commerce Designer" national certification examination.

Some of the courses described above can be articulated at Volunteer State Community College, Nashville State Tech, Tennessee Technology Center at Hartsville, and the Tennessee Technology Center at Nashville, Tennessee Technological University and O'Moore College of Design. Students interested in attending any of these post-secondary institutions must assume the responsibility of determining whether they meet the criteria to articulate. Contact your guidance counselor for details. Identify with a (*)

CONSTRUCTION CLUSTER

All classes in Carpentry require students to pass a safety test with a score of 100 and have proof of insurance before they are allowed in the shop/lab.

CARPENTRY

Course Sequence Suggested

Grade	Course Name	Credit
10	Carpentry 1	1
11	Carpentry 2	1
12	Carpentry 2 Advanced	2

For present 9th through 11th grade students

CARPENTRY 1 (5731) or (5731V)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Board-approved materials fee may be collected.

Introduces students to basic carpentry skills, tools associated with carpentry work, and job safety. The academic portion focuses on math training and review, technical data, and blueprint reading. The hands on portion covers a wide range of hand and power tools required for carpentry work. Students will receive instruction on the basic fundamentals of building techniques to include rough framing of floor systems and wall framing.

CARPENTRY 2 (5731B) or (5731BV)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Carpentry 1, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

A continuation of Carpentry 1 with more emphasis on safety, carpentry math, tool usage, framing operations, and ceiling and roof framing for residential construction. Students will receive instruction in cutting stairs and installation of exterior windows and doors.

CARPENTRY 2 ADVANCED (5732) or (5732V)

Open to grades 11 and 12

2 credits –full year

Prerequisite: Carpentry 2, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Educates students on various carpentry skills and tasks associated with construction other than residential framing. These tasks include interior trim, interior doors, decks, hardwood flooring, storage buildings, remodeling procedures consisting of drywall repair, floor repair, and numerous other tasks required for remodeling operations. Students will receive instruction on customer relations/communication and the administration portion of operating a small business as a sole proprietor/contractor, as well as participate in on-site tours of local industry and residential construction sites.

CABINET MAKING

All classes in Cabinetmaking require students to pass a safety test with a score of 100 and have proof of insurance before they are allowed in the shop/lab.

Course Sequence Suggested

Grade	Course Name	Credit
10	Cabinetmaking 1	1
11	Cabinetmaking 2	1
12	Cabinetmaking 2 Advanced	2

CABINET MAKING 1 (5743) or (5743V)

Open to grades 9, 10, 11, and 12 with preference given to 10

1 credit

Board-approved materials fee may be collected.

Introduction to woodworking, including history of cabinet making and millwork, career exploration, training requirements, furniture designs, safety and housekeeping, and use of hand tools and power equipment in the cabinet shop.

CABINET MAKING 2 (5225V)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Cabinet Making 1, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Includes the principles and procedures for construction of wood cabinets, furniture, and other wood products. Instruction and practical lab experiences are taught in selecting, measuring, cutting, assembling, and finishing various woods.

CABINET MAKING 2 ADVANCED (5225AV)

Open to grades 11 and 12

2 credits- full year

Prerequisite: Cabinet Making 2, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Includes more detailed principles and procedures for construction of wood cabinets, furniture, and more detailed and designed wood products.

DRAFTING

Course Sequence Suggested

Drafting

Grade	Course Name	Credit
10	Drafting 1 : Engineering Design / CAD	1
11	Drafting 2 : Engineering Design / CAD	1
12	Drafting 2 Advanced : Computer Aided Design (CAD)	2

DRAFTING 1: ENGINEERING DESIGN/CAD (5788) or (5788V)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Board-approved materials fee may be collected.

Students will be using basic concepts of scale drawing and orthographic projections making simple 2 and 3 dimensional drawings using manual drafting tools and computer-aided design (CAD). This course enables a student to make the transition from the drawing board to the use of CAD software by having them make increasingly complicated drawings.

DRAFTING 2: ENGINEERING DESIGN/CAD (5788a) or (5788aV)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Drafting 1: Engineering Design/CAD (5788 or 5788V), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Students complete more complex engineering and architectural assignments based on the knowledge and skills learned in Drafting 1 utilizing CAD (AutoDesk's Design Academy programs). Students will be working individually and in teams on class projects to create a complete set of architectural construction drawings as well as production and assembly drawings for a mechanical product.

DRAFTING 2 ADVANCED: COMPUTER-AIDED DESIGN (5789) or (5789V)

Open to grades 11 and 12

2 credits – full year

Prerequisite: Drafting 2: Engineering Design/CAD (5788 or 5788V), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Students learn to use a CAD program (AutoDesk's Design Academy programs) to create engineering and architectural drawings, assembly drawings, welding and process drawings, cross sections, 3D representations, and bills of materials. Individual drawings with some group projects and increasing complex drawings are emphasized.

CRIMINAL JUSTICE

Course Sequence Suggested

Criminal Justice

Grade	Course Name	Credit
10	Criminal Justice 1	1

11 Criminal Justice 2
12 Criminal Justice 3

1
2

CRIMINAL JUSTICE 1 (5330)

Open to grades 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

Provides an overview of our legal system including corrections, juvenile courts and law, ethics, constitutional issues, legislation, theories and principles of criminal law, law enforcement, history and philosophy of the court system, and alternate programs. For students interested in pre-law, corrections, penal systems, and law enforcement. Includes field trips, guest speakers, and mock trials.

CRIMINAL JUSTICE 2 (5331)

Open to grades 11 and 12

1 credit

Prerequisite: Criminal Justice 1, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Continuation of Criminal Justice 1 covering the constitution; federal, state, and local court systems; career positions (law enforcement, corrections, attorneys, etc.); corrections system; and state and local law. Includes mock scenes, criminal investigation techniques and forensics.

CRIMINAL JUSTICE 3A and 3B (5342A and 5342B)

Open to grade 12

2 credits entire year OR students may opt to take either 1st term for 1 credit or 2nd term for 1 credit

Prerequisite: Criminal Justice 2, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Students will apply knowledge gained in Criminal Justice 1 and 2 through the use of research exercises, information gathering, interviews, observations at courthouses, and formulate and evaluate statistical data. Individual and group activities will develop problem-solving and teamwork skills in conjunction with development of academic skills. Through foundation workplace activities, students will travel outside the classroom during their research gathering for more context, detail, and real-life learning. Designed for seniors who plan to continue their education in the areas of legal and protective service careers.

CULINARY ARTS

All classes in the Culinary Arts require students to pass a safety test with a score of 100 and have proof of insurance before they are allowed in the shop / lab.

Course Sequence Suggested

Culinary Arts

Grade	Course Name	Credit
10	Culinary Arts 1	1
11	Culinary Arts 2	1
12	Culinary Arts 2 Advanced	2

CULINARY ARTS 1 (5381) or (5381V)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Board-approved materials fee may be collected.

Introduces students to food production skills (including preparation of breads, cakes, cookies, sandwiches, salads, appetizers, and garnishes), cooking, and safety and sanitation skills. Includes customer service skills, tool and small equipment usage, measuring techniques, and teamwork skills to further career development. To promote culinary excellence, the Skills USA club is a part of classroom instruction.

For present 9th through 11th grade students

CULINARY ARTS 2 (5382) or (5382V)

Open to grades 10, 11, and 12

1 credit

Prerequisite: Culinary Arts 1, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Develops a broad knowledge of restaurant equipment, sanitation, personal hygiene, nutrition, diet, pastries, menu planning, and recipes. Includes the study of cost control, ordering, receiving and storing food. Consists of the evaluation and implementation of HACCP, a food safety program building upon knowledge of food preparation skills. To promote culinary excellence, the Skills USA club is a part of classroom instruction.

CULINARY ARTS 2 ADVANCED (5384) or (5384V)

Open to grades 11 and 12

2 credits - 1 term (CONSECUTIVE BLOCKS)

Prerequisite: Culinary Arts 2, with a grade of at least 80 or teacher recommendation

Proper chef attire will be required for wear at minimum once a week.

Board-approved materials fee may be collected.

Success in this class involves all aspects of a restaurant, including meal preparation, presentation, serving, cleanup, teamwork, and individual responsibility. Extensive lab time is required during class time. To promote culinary excellence, the Skills USA Club is a part of classroom instruction.

ELECTRONICS

All classes in Electronics require students to pass a safety test with a score of 100 and have proof of insurance before they are allowed in the shop / lab.

Course Sequence Suggested

Electronics

Grade	Course Name	Credit
10	Electronics 1	1
11	Electronics 2	1
12	Electronics 2 Advanced	2

ELECTRONICS 1: COMPUTER ELECTRONICS AND HARDWARE (5755A) or (5755AV)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Board-approved materials fee may be collected.

Computer Electronics and Hardware is designed to prepare students with work-related skills for advancement in the telecommunication and computer architecture career paths. Content provides students the opportunity to acquire basic foundational knowledge and skills in both theory and practical applications in direct current, alternating current, digital and power supply circuits.

ELECTRONICS 2: COMPUTER ELECTRONICS AND HARDWARE (5755B) or (5755BV)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

2 credits full year

Board-approved materials fee may be collected.

Course content includes fundamentals for personal computers (PC), networking, determining system requirements, setting up equipment, and performing installation tests for the end user. Content provides the opportunity to evaluate and install peripheral devices. Course content will be delivered through virtual training and hands-on methods. Competencies mastered during this course help prepare students toward acquiring basic electronics and/or A+ certifications.

ELECTRONICS 2 Advanced: COMPUTER OPERATING SYSTEMS (5756) or (5756V)

Open to grades 10, 11, and 12

2 credit

Prerequisite: Electronics 1A & 1B (5755 or 5755V), with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

For present 9th through 11th grade students

Computer Operating Systems is designed to allow students to develop work-related skills and prepare for certification in the computer architecture career path. Content provides students the opportunity to acquire knowledge and skill in both theory and practical applications pertaining to installing, upgrading and troubleshooting computer operating systems. Procedures used in the course may be hardware oriented, software oriented, or programming oriented. Upon completion of the course, students will possess a thorough knowledge of modern personal computer operating systems and be able to take the A + Certification exam.

MEDIA CONCEPTS

Course Sequence Suggested

Media

Grade	Course Name	Credit
10	Media Concepts	1
11	Electronic Media Productions	1 or 2
12	Electronic Management and Operations	2

MEDIA CONCEPTS (5763)

Open to grades 10, 11, and 12

1 credit

Board-approved materials fee may be collected.

Entry-level course preparing students for the media industry. Course content provides a broad based exposure to audio, video, journalism and broadcasting within the media industry. Upon completion of this course, students will be prepared to pursue advanced coursework in either audio or video technology or journalism and broadcasting.

ELECTRONIC MEDIA PRODUCTION (5764)

Open to grades 10, 11, and 12

1 or 2 credits

Prerequisite: Media Concepts, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Course content focuses on electronic media production (EMP) technologies utilizing simulation and / or real life projects. This course centers on production of various EMP products. The student will gain valuable insight into the many facets of EMP production, including, but not limited to concept creation, scripting, sound design, visual design, engineering editing, budgeting, and producing as well as exploring some of the latest advances in industry technology.

ELECTRONIC MANAGEMENT AND OPERATIONS (5765)

Open to grades 11 and 12

2 credits—full year

Pre-requisite: Electronic Media Production, with a grade of at least 80 or teacher recommendation

Focuses on simulated real-life electronic broadcasting media production and management activities and productions. Projects center on in-house production of newscasts, special events, and original programming. Course content is composed of scripting, broadcasting, reporting, directing, editing, budgeting, and producing, as well as cameras, lights, sound, and set design. This course will explore the latest digital technology and applications, research, and future trends in the electronic media industry. Upon completion, students will be prepared to pursue post-secondary education or enter the electronic media industry in an entry-level position.

TRANSPORTATION CLUSTER

All classes in the Transportation Cluster require students to pass a safety test and have proof of insurance before they are allowed in the shop / lab.

AUTO MECHANICS

Course Sequence Suggested

Grade	Course Name	Credit
10	Introduction to Automotive Technology	1
11	Automotive Technology 1 : Electrical and Electronics	2
12	Automotive Technology 2 : Engine Performance and Automotive Technology 2 Advanced :	2 and 1

INTRODUCTION TO AUTOMOTIVE TECHNOLOGY (Transportation Core) (5702)**Open to grades 9, and 10, 1 credit****Board approved materials fee may be collected.**

This course prepares students for entry into all subsequent Automotive Technology 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, automotive systems, basic engine fundamentals, and basic technician skills. Upon completing this course students may enter automotive service technology.

AUTO MECHANICS 1: ELECTRICAL/ELECTRONICS (5713) or (5713V)

Open to grades 10, 11, and 12 with preference given to 10 and 11**2 credits-full year****Prerequisites: Introduction to Automotive Technology with a grade of at least 80 or teacher recommendation****Board-approved materials fee may be collected.**

This course prepares students for entry-level positions or advanced training in automotive electrical and electronics systems. Students apply principles of electronics to automotive technology and develop diagnostic skills. The course provides students the opportunity to acquire marketable skills by training in the use of digital and analog voltmeters, ohmmeters, and amp-meters; as well as oscilloscopes, test-lights, load-testers and specialized electrical test equipment. After receiving classroom instruction on theory and operation, student knowledge is applied in the shop.

Course content prepares students for the Automotive Service Excellence (ASE) Electrical and Electronics.

Upon completing this course students may enter Automotive Engine Performance.

AUTO MECHANICS 2: ENGINE PERFORMANCE (5711) or (5711V)

Open to grades 11, and 12**2 credits-full year****Prerequisites: Auto Mechanics 1, with a grade of at least 80 or teacher recommendation****Board-approved materials fee may be collected.**

The course covers electronic ignition and distributor ignition systems, fuel management, exhaust emission control, and computer input and output signals and will identify the different types of sensors used by automotive engine computers. Students will perform inspections, tests, and measurements for diagnosis and perform needed repairs. After receiving classroom instruction on theory and operation, student knowledge is applied in the shop.

AUTO MECHANICS 3: BRAKE SYSTEMS (5712) or (5712V)

Open to grades 11, and 12**1 credit****Prerequisite: Auto Mechanics 2: Engine Performance (5711 or 5711V), with a grade of at least 80 or teacher recommendation****Board-approved materials fee may be collected.**

Students will receive training in the diagnosis and repair of hydraulic, mechanical and electrical systems used in standard and anti-lock brake systems. This course content covers diagnostic, repair and or service technology of truck hydraulic and antilock brake systems to the original equipment manufacture (OEM) specifications. After receiving classroom instruction on theory and operation, student knowledge is applied in the shop.

Course content prepares students for the Automotive Service Excellence (ASE) Brake System test, for entry level placement in the workforce, and for entry into post-secondary education.

DIESEL MECHANICS TECHNOLOGY

Course Sequence Suggested

Grade	Course Name	Credit
10	Diesel Technology 1 : Preventive Maintenance Inspection	1
11	Diesel Technology 2 : Electrical and Electronics	2

DIESEL MECHANICS TECHNOLOGY 1: PREVENTIVE MAINTENANCE (5714V)

Open to grades 9, 10, 11, and 12 with preference given to 10 and 11

1 credit

Board-approved materials fee may be collected.

Offers students training in the inspection and servicing of heavy trucks by introducing proper procedures and practices for preventive maintenance and servicing.

DIESEL MECHANICS TECHNOLOGY 2: ELECTRICAL/ELECTRONICS (5717V)

Open to grades 10, 11, and 12

2 credits – full year

Prerequisite: Diesel Mechanics Technology 1, with a grade of at least 80 or teacher recommendation

Board-approved materials fee may be collected.

Training in the diagnosis and repair of the electrical systems of medium and heavy trucks. Students apply principles of electricity and electronics to diesel technology and develop diagnostic skills. Training in the use of test equipment such as digital multimeters (DMM) and ammeters is included.

DIESEL MECHANICS TECHNOLOGY 2: ADVANCED DIESEL ENGINE (5718V)

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

Prerequisite: Diesel Mechanics 2, with a grade of at least 80 or teacher recommendation

Offers training in the testing and repairing of diesel engines and related systems. Introducing fundamental principles of diesel engine operation. Students will learn to perform inspections, test, and measurements of diagnosis and perform needed repairs.

WORK BASED LEARNING

COOPERATIVE EDUCATION METHODOLOGY [Academic (9398), Vocational (9397)]

Open to grades 11 and 12

1 credit

Board-approved materials fee may be collected.

For students in career technical education and academic education classes. Allow students to gain on-the-job experience while being enrolled in a class that directly relates to the paid job experience. Students are required to work a minimum of fifteen (15) hours per week. Students are placed and monitored on the job by the cooperative education coordinator.

SUCCESS SKILLS THROUGH SERVICE LEARNING (9395)

Open to grades 11, and 12

1 credit

Board-approved materials fee may be collected.

A program, which combines volunteer service and classroom instruction and provides a comprehensive approach. Focuses on ethical, social and intellectual skill development of students; development of positive values such as trustworthiness and responsibility; commitment to a task and those involved in the task; collaboration; team-building, punctuality, and respect for the quality of work done while serving the community.

Some of the courses described above can be articulated at Volunteer State Community College, Nashville State Tech, Tennessee Technology Center at Hartsville, and the Tennessee Technology Center at Nashville. Students interested in attending any of these post-secondary institutions must assume the responsibility of determining whether they meet the criteria to articulate. Contact your guidance counselor for details. Below is a list of courses that currently articulate:

Course	School
Drafting 2 Advanced	Technology Center at Hartsville

For present 9th through 11th grade students

Auto Mechanics 2 Advanced
Applied Communication
Marketing 1 and 2 *
Keyboarding and Keyboarding Application
Culinary Arts 1, 2 and 2 Advanced *
Criminal Justice (must have 3 credits)
Drafting 2 Advanced

Technology Center at Hartsville
Vol State Community College
Vol State Community College
Vol State Community College
Vol State Community College
Nashville State Community College
Nashville State Community College

*students must have credit in all classes listed