

CAREER AND TECHNOLOGY EDUCATION

The district offers career and technology programs in Business Education, Family & Consumer Science, and Agricultural Science & Technology. Admission to these programs is based on interest, ability, choice, availability and grade level. The district will take steps to ensure that a lack of English language skills will not be a barrier to admission or participation in any educational and career and technology programs. For further information about these programs, please contact the Title IX Coordinator, Vernis Rogers, Superintendent, at 7622 U. S. Hwy. 69 North, Pollok, Texas 75969, telephone (936) 853-2216, or the Section 504 Coordinator, Vernis Rogers.

Central I.S.D. and its Career and Technology Education program does not discriminate on the basis of sex, disability, race, color, age or national origin in its education programs, activities, or employment as required by Title IX, Section 504 and Title VI.

Tech Prep Program

In order to be a Tech Prep Program student, the four-year plan should include at least three (3) credits in Career & Technology. You may choose to gain three (3) credits from each individual department listed: Business Education, Agricultural-Science, or Family & Consumer Sciences, Career Guidance & Counseling, or you may choose to follow one of the Career & Technology strands below by choosing any classes that equal a total of three (3) credits. You may take the courses in any order.

INTRODUCTION TO WORLD AGRICULTUREAL SCIENCE AND TECHNOLOGY

Grades: 9-12

Prerequisite: None

Credit: 1/2

A basic introductory course designed to introduce beginning students in Agricultural Science to global agriculture. The course also includes agricultural career development, leadership, communications, and personal finance.

APPLIED AGRICULTURAL SCIENCE AND TECHNOLOGY

Grades: 9-12

Prerequisite: None

Credit: ½

A basic applied course designed to enhance the agricultural comprehension of beginning students in Agricultural Science and Technology. The course includes soils, plants, animals, agricultural construction, food science, supervised agricultural experience programs, and leadership.

INTRODUCTION TO AGRICULTURAL MECHANICS

Grades: 10-12

Prerequisite: None

Credit: ½

A course designed to familiarize the student with basic theory and specialized skills. Skills will be developed in the areas of tool identification, safe use, carpentry, electricity, plumbing, masonry, fencing, painting, metal working and welding processes.

HOME MAINTENANCE AND IMPROVEMENT

Grades: 10-12

Prerequisite: None

Credit: ½

A course designed to prepare students to improve and maintain the urban or rural home and adjacent buildings. It further prepares students to analyze repair needs and use approved safety techniques.

ANIMAL AND PLANT PRODUCTION

Grades: 10-12

Prerequisite: None

Credit: ½

This course includes principles of animal and plant production and the management of soils are related to agriculture.

INTRODUCTION TO HORTICULTURAL SCIENCES

Grades: 10-12

Prerequisite: None

Credit: ½

A course designed to introduce students to horticultural sciences with emphases on technical skills, entrepreneurship, and occupational opportunities.

PERSONAL SKILLS DEVELOPMENT IN AGRICULTURE

Grades: 10-12

Prerequisite: None

Credit: ½

A comprehensive course in developing agriculture leadership, citizenship, and cooperation. It includes topics in personal development, employee/employer relations, and group and individual interpersonal communications skills.

AGRICULTURAL METAL FABRICATION TECHNOLOGY

Grade: 10-12

Prerequisite: None

Credit: ½

A course designed to develop skills in metal equipment assembly and joining processes.

AGRICULTURAL POWER TECHNOLOGY

Grade: 10-12

Prerequisite: None

Credit: ½

A course designed to develop skills in selection, operation and maintenance of small air-cooled engines, multi-cylinder engines, hydraulic motors, electric motors, and agricultural machinery and tractors.

EQUINE SCIENCE

Grade: 10-12

Prerequisite: None

Credit: ½

A course designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health and management of horses.

LANDSCAPE DESIGN, CONSTRUCTION AND MAINTENANCE

Grade: 10-12

Prerequisite: None

Credit: ½

A course that prepares students to design, constructs, and maintains planted areas and devices for the beautification of home grounds and other areas of human habitation and recreation.

HORTICULTURE PLANT PRODUCTION

Grade: 10-12

Prerequisite: Recommended you take Intro. To Horticulture first

Credit: ½

This is a course that prepares student to produce greenhouse/nursery plants and to maintain plant growth and propagation structures.

WILDLIFE AND RECREATION MANAGEMENT

Grade: 10-12

Prerequisite: None

Credit: ½

A course designed to examine the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources.

EXPLORING AQUACULTURE

Grade: 10-12

Prerequisite: None

Credit: ½

A course designed to examine and explore the importance of aquaculture. Students will develop knowledge and skills pertaining to the nutrition growth, health, and management or aquatic life.

ANIMAL SCIENCE

Grade: 10-12

Prerequisite: None

Credit: ½

This technical course is designed to develop knowledge and skills pertaining to the nutrition and management of domestic animals.

AGRICULTURAL MECHANICS (Tech Prep)

Grade: 11-12

Prerequisite: Introduction to Agricultural Mechanics (221) or Agricultural Metal Fabrication (332) or seniors get first choice, juniors get second choice.

Credit: 1*

This course shall be shop/laboratory-oriented course involving welding, building, and maintaining farm machinery, etc. *this course may be taken two (2) times for a total of (2) credits.

BUSINESS COMPUTER INFORMATION SYSTEM I

Grade: 10-12

Prerequisite: None

Credit: 1

Business Computer information Systems I prepares students to apply technology skills to personal/workplace business situations focused on word processing, spreadsheet, database, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies. Students complete the course with an intermediate level skill in word processing, spreadsheet, presentation graphics and database applications. **The course satisfies the technology applications requirements for all graduation plans.**

BUSINESS COMPUTER PROGRAMMING

Grade: 10-12

Prerequisite: None

Credit: 1

Business Computer Programming focuses on analytical problem solving skills and structured programming. Students also focus on advanced programming skills, with emphasis on programming methodologies, algorithms, and data structures. Students investigate programming languages and operating systems. Students analyze computer systems through programming applications. In addition, the course examines confidentiality and security of information as well as employment opportunities in various business environments.

BUSINESS IMAGE MANAGEMENT AND MULTIMEDIA

Grade: 11-12

Prerequisite: Business Computer Information Systems I

Credit: 1

Business Image Management and Multimedia develops student proficiencies in designing, importing, and manipulating advanced text, graphics, audio, and video used in presentation management, multimedia productions, publishing systems, and emerging technologies.

ACCOUNTING (Tech Prep)

Grade: 11-12

Prerequisite: None

Credit: 1

Accounting I introduces students to accounting concepts, principles, and procedures. The course emphasizes the skills, knowledge, and attitudes necessary for individuals to conduct personal business or to further their education in the field of accounting.

BUSINESS COMPUTER INFORMATION SYSTEM II

(MOUS)- Tech prep

Grade: 11-12

Prerequisite: BCIS I

Credit: 1

This course is designed to allow students to obtain Microsoft Certification in Word, Excel, Powerpoint, and Access. The course is divided into four parts in order to learn all features of each application. At the end of each unit, the students participate in a testing session to take each test. The object of the course is to become Master Certified in Microsoft Office.

Also, this course will be articulated with a corresponding course at Texas Community colleges; therefore students must meet the requirement of the Articulation Agreement:

- 11th or 12th grade only
- Receive a grade of 80 or better; also 80 or better in BCIS 1 (MOUS)
- Enroll in a participating junior/ community college after 15 months of high school graduation
- College equivalent course must apply to the student's degree plan (must be an approved tech prep degree plan)

In addition, students may receive an 'advanced measure' for completion of this course as required by the Distinguished Achievement graduation plan of Central High School.

PERSONAL AND FAMILY DEVELOPMENT

Grades: 9-12

Prerequisite: None

Credit: 1

The content in this laboratory course is all inclusive of the composition of the home economics discipline. Students may expect to acquire knowledge and skills related to family living, child development, clothing and textiles, housing, management, consumer economics and responsibilities, food and nutrition, personal and family health, and the relationship between the home and the work place. Emphasis is placed on taking responsibility for actions, basic needs of children, nutrition, decision making, managing resources, surviving in the market place, and the career. Home project is required.

APPAREL

Grade: 10-12

Prerequisite: None

Credit: ½

This technical laboratory course focuses on apparel from the perspective of personal decision making related to apparel, the apparel industry, and career preparations. Topics include managing, the apparel dollar, apparel repair and alteration, and wardrobe planning, care, and maintenance. Quality apparel construction is addressed as it relates to consumer decision making and career preparation for the apparel industry. Other content addresses career options and management practices for assuming multiple family, community, and wage earner roles. Home project is required.

TEXTILES AND APPAREL DESIGN

Grade: 10-12

Prerequisite: Apparel

Credit: ½

This laboratory course provides in depth knowledge and skills in the design of textiles and apparel. Students have opportunities to learn: characteristics and textile development; and textile selection, use, and care. Concepts are covered regarding the design industry and prescribe regulations. Skills are taught in design procedures, costing, producing, and marketing. The course provides students with good foundation regarding expectations and careers within occupational areas of gainful employment and family adjustment. Home project is required.

NUTRITION AND FOOD SCIENCES

Grade: 10-12

Prerequisite: none

Credit: ½

This technical laboratory course provides foundational training in the area of food science and technology. Content addresses food science principles, nutrition and wellness, food technology, world food supply, managing multiple family, community, and wage earner roles, and career options in nutrition, food science, and food technology. Instructional topics include diet-related disorders, diets appropriate to the life cycle and other factors, therapeutic diets, chemical and physical changes and affect food product quality, technologies used in food processing and product development food safety and sanitation standards, market research, legal issues, and food policies. Laboratory activities utilizing research methods relating to current issues in food science, technology, and nutrition are included. Home project is required.

FOOD SCIENCE AND TECHNOLOGY

Grades: 10-12

Prerequisite: Nutrition and Food Science

Credit: ½

This technical laboratory course provides foundational training in the area of food science and technology. Content addresses food science principles, nutrition and wellness, food technology, world food supply, managing multiple family, community, and wage earner roles, and career options in nutrition, food science, and food technology. Instructional topics include diet-related disorders, diets appropriate to the life cycle and other factors, therapeutic diets, chemical and physical changes and affect food product quality, technologies used in food processing and product development food safety and sanitation standards, market research, legal issues, and food policies. Laboratory activities utilizing research methods relating to current issues in food science, technology, and nutrition are included. Home project is required.

HOUSING

Grades: 10-12

Prerequisite: None

Credit ½

This technical laboratory course focuses on the management of family housing needs, housing and the environment, and career preparation. Content includes types of housing, legal and financial aspects of housing, home safety and maintenance, space utilizations, factors affecting housing choices, technology applications, and basic housing construction features. Other topics are interior and exterior and environmental issues, impact of housing decisions on managing multiple family, community, and wage earner roles, career options, and housing trends for the future. Home project is required.

INTERIOR DESIGN

Grades: 10-12

Prerequisite: Housing

Credit: ½

This technical laboratory course focuses on the design of residential and none residential interior environment to achieve occupant well being and productivity. Content addresses design practices and influences, lightening, materials, furnishings, legal considerations, and the impact of technology on interiors. Budgeting, consumer decision making, safety, the care and maintenance of interior, career preparations, and the management of multiple adult roles are emphasized. Home project is required.

PREPARATION FOR PARENTING (Tech Prep)

Grades: 10-12

Prerequisite: None

Credit: 1/2

This technical laboratory course is designed to provide individual opportunities to develop knowledge and skills in preparation to function effectively in the role of parent or caregiver. Content stresses parental responsibilities, child guidance techniques, parents as positive role models, parents as their children's first teacher, and parenting practices, which promote a child's development, health, safety, and well being. Managing family crisis, managing multiple roles of family members throughout the life cycle, and career preparations are additional topics. Home projects required.

CHILD DEVELOPMENT (Tech Prep)

Grades 10-12

Prerequisite: None

Credit: ½

This technical laboratory course is designed to focus on knowledge and skills related to the development, care, guidance, and protection of children. Instruction addresses the principles and procedures for promoting the physical, emotional, social, and intellectual development of young children, including those with special needs. Other topics include characteristics of quality child care, career options related to the care and education of children in the management of multiple family, community, and family roles. Home project is required.

MANAGEMENT

Grade: 10-12

Prerequisite: None

Credit: 1/2

This technical course encompasses material on the management process, management of resources, managing multiple roles within the life span, and career options and preparations. Content stresses knowledge and skills related to the decision making, problem solving, and goal setting as management tools. Also addressed are effective practices for managing a wide range of resources including time, energy, environmental, and financial resources, as well as technology, community, and human resources. Home project is required.

CONSUMER AND FAMILY ECONOMICS

Grades: 10-12

Prerequisite: None

Credit: ½

This technical course focuses on management and financial resources and obligations to meet personal and family needs across the life span. The course addresses the consumer rights and responsibilities, families spending decisions, issues affecting consumers and the U. S. economy, effective consumer buying and consumer protection, credit management, technology applications, and implications in financial management, retirement planning, and family financial security. Career options available in consumer and resource management and strategies managing multiple family, community, and wage earner roles are part of the content. Home project is required.

INDIVIDUAL AND FAMILY LIFE

Grades: 10-12

Prerequisite: None

Credit: 1/2

This technical course is designed to focus on personal and family function, and career preparation- all within a changing society. This course addresses personal identity, responsibilities of living as an independent adult, relationship development outside the family, and factors related to marital success. Special attention is focused on understanding roles, responsibilities, and impact of the family on individuals in society, promoting and strengthening the family unit, the impact of technology on career options and family life, and managing multiple family, community, and career roles. Home project is required.

DIGITAL ANIMATION/ GRAPHICS

Grades: 10-12

Prerequisite: BCIS I

Credit: 1

Students will learn fundamental concepts of graphic design, color mixing, balance, symmetry, and basic sound editing principles. They may work in bitmapped mode, create backgrounds, 3-D effects, and animation. Students will integrate software and use tasks appropriate peripherals such as laser and color printers, CD-Rom, scanners, and digital cameras.

WEBMASTERING

Grades: 10-12

Prerequisite: BCIS I

Credit: 1

Students will create interactive Web sites for authentic customers using specific authoring tools and establish design principles. A variety of web development tools will be used. Topics of study may include: the structure and functionality of WWW sites, design elements, graphics and animations, HTML, FrontPage, Netscape composer, and Javascript.

DESKTOP PUBLISHING

Grades: 10-12

Prerequisite: BCIS I

Credit: 1

Students will publish a variety of digital products including newspapers, business cards, stationary, book jackets, brochures, calendars, labels, advertisements, novelty items. Topics of study may include : text, graphics, headlines, white space, leading/ Kerning, automatic text flow, windows/orphans, text wrap, and embedded text frames.

Coherent Career & Technology Course Sequences

Departments Include:

Business Education
Agricultural Science & Technology Education
Family & Consumer Science
Career Guidance & Counseling

❑ Strand: Food & Fiber Production Systems

Business Computer Information Systems I (1 credit)
Introduction to World Agricultural Science and Technology (1/2 credit)
Plant and Animal Production (1/2 credit)
Animal Science (1/2 credit)
Career Connections (1/2 credit)
Apparel (1/2 credit)
Textiles/Apparel (1/2 credit)

❑ Strand: Food Science Technologies

Business Computer Information Systems I (1 credit)
Introduction to World Agricultural Science & Technology (1/2 credit)
Animal Science (1/2 credit)
Career Connections (1/2 credit)
Nutrition and Food Science (1/2 credit)

❑ Strand: Environmental Design

Business Computer Information Systems I (1 credit)
Landscape Design, Construction and Maintenance (1/2 credit)
Introduction to Horticultural Science (1/2 credit)
Horticultural Plant Production (1/2 credit)
Home Maintenance & Improvement (1/2 credit)
Wildlife and Recreation Management (1/2 credit)
Career Connections (1/2 credit)
Housing (1/2 credit)
Interior Design (1/2 credit)

□ Strand: Consumer and Resource Management

Business Computer Information Systems I (1 credit)
Recordkeeping (1/2 credit)
Accounting I (1 credit)
Home Maintenance and Improvement (1/2 credit)
Landscape Design, Construction and Maintenance (1/2 credit)
Wildlife and Recreation Management (1/2 credit)
Exploring Aquaculture (1/2 credit)
Career Connections (1/2 credit)
Personal and Family Development (1 credit)

□ Strand: Implementation of Technology

Business Computer Information Systems I (1 credit)
Computer Programming I (1 credit)
Business Computer Information Systems II (MOUS certification) (1 credit)
Introduction to Agricultural Mechanics (1/2 credit)
Agricultural Mechanics PreLab (1 credit)
Agricultural Structures Technology (1/2)
Agricultural Metal Fabrication Technology (1/2 credit)
Agricultural Power Technology (1/2 credit)
Career Connections (1/2 credit)

□ Strand: Agricultural Science

Any combination of Agricultural Science courses that equal a total of three credits
Business Computer Information Systems I

□ Strand: Family & Consumer Science

Any combination of Family & Consumer Science courses that equal a total of three credits
Business Computer Information Systems I

□ Strand: Business Education

Any combination of Business Education courses that equal a total of three credits;
Business Computer Information Systems I shall be one of the credits

Please note: The courses listed above are not necessarily listed in the order to be taken.