

Edcouch-Elsa High School
Career and Technical Education (CTE) Courses
2008-2009

Agricultural Science and Technology Education

Agricultural Mechanics I

PEIMS Number: 11934422* (AGMECH)

Grade Placement: 11-12; Credits: 1-3; Prerequisite: None

A laboratory-oriented course designed to introduce the scientific principles, concepts, and skill development necessary in agricultural mechanics. The course emphasizes soil and water conservation, electrification, concrete and masonry construction, building planning and construction, small engine and agricultural equipment maintenance and repair, and oxyfuel and electric cutting and welding. Instruction will include information on career opportunities, leadership activities, and record keeping practices related to the industry.

Agricultural Metal Fabrication Technology

PEIMS Number: 11922322* (AGMFTECH)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

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

Animal Science

PEIMS Number: 11923332* (ANIMALSC)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

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

Applied Agricultural Science and Technology

PEIMS Number: 11911102* (APAGSCTE)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A basic course designed to enhance the agricultural comprehension in agricultural science. The course includes soils, plants, animals, agricultural construction, food science, supervised agricultural experience programs, and leadership.

Exploring Aquaculture

PEIMS Number: 11922282* (EXPLAQUA)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A course designed to provide a clear understanding of the scope of aquaculture production and the existing career opportunities. A study of aquatic plants and animals, water management, production techniques, and management and marketing skills provide a thorough basis for future studies.

Introduction to Agricultural Mechanics

PEIMS Number: 11921221* (INAGMECH)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A course designed to introduce basic theory and specialized skills in agricultural mechanics. Skills to be developed include tool identification and safe use, carpentry, electricity, plumbing, masonry, fencing, painting, metal working, and welding processes

Personal Skill Development in Agriculture

PEIMS Number: 11922312* (PESKDEAG)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A comprehensive course designed to develop agricultural leadership, citizenship, and cooperation. Instruction includes such topics as personal development, employee/employer relations, and group and interpersonal communication skills.

Plant and Animal Production

PEIMS Number: 11921231* (AMPLPROD)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A course designed to provide principles of animal and plant production and the management of soils as related to agriculture.

Specialty Agriculture

PEIMS Number: 11923331* (SPECAGRI)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A course designed to emphasize the selection, production, and marketing of specialty enterprises. Record keeping, integrated systems, career opportunities, and leadership will be included in instruction.

Wildlife and Recreation Management

PEIMS Number: 11923381* (WIRECMGT)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

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

Food Technology

PEIMS Number: 11921241* (FOODTECH)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A course concerned with world food production; the processing, preparing, and packaging of foods; government regulations regarding foods; exploring career opportunities; and leadership development.

Applied Agricultural Science and Technology

PEIMS Number: 11911102* (APAGSCTE)

Grade Placement: 9-12; Credit: ½; Prerequisite: None

A basic course designed to enhance the agricultural comprehension in agricultural science. The course includes soils, plants, animals, agricultural construction, food science, supervised agricultural experience programs, and leadership.

Business Education/Career Connections

WBL/Administrative Office Procedures

PEIMS Number: 12031200****

Grade Placement: 11-12; Credit(s): 2-3; Recommended Prerequisite: BCIS 1

Provides an advanced and in-depth study of concepts and skills in various systems and administrative procedures that enable a worker to manage or function in the workplace; enhances technology skills and oral and written language skills relating to effective communications; emphasizes planning and organizing work, establishing priorities, records and information management, and operation of equipment; and serves as the major vehicle for cooperative education.

Career Connections (CCO)

PEIMS Number: 12731100*****

Grade Placement: 9-10; Credit: ½; Prerequisite: None

This is an activity-based career development course which provides linkages between classroom experiences, community resources and experiences, and career choices to real world outcomes. Opportunities to develop and/or improve self-awareness in relation to career opportunities and options and the related education, training and lifelong learning and success in all adult roles will be provided through classroom activities and shadowing and other experiences in the community. The course offers opportunities to explore and experience a variety of career options within a specific career concentration while developing and/or refining employability skills will be provided to all participants.

Accounting I

PEIMS Number: 12022100* (BEGACCT1)

Grade Placement: 10-12; Credit: ½-1; Recommended Prerequisite: None

Introduces general accounting concepts, principles, and procedures; emphasizes the need for financial records; provides the fundamental equation and its application to accounting procedures, including the basic steps of the accounting cycle, special journals and ledgers, work sheets, adjusting and closing entries, special problems in the purchase and sale of merchandise, notes and interest, depreciation, accruals and prepaid items, payroll records, and personal income taxes. Accounting develops the knowledge, skills, and attitudes necessary for individuals to conduct personal business or to further an education in the field of accounting. Students complete practice sets or simulations, use calculators, and process some data electronically.

Business Computer Information Systems I

PEIMS Number: 12011200* (BEGBCIS1)

Grade Placement: 9-10; Credit: ½-1; Prerequisite: Keyboarding

Develops technology skills with applications to personal or business situations focusing on word processing, spreadsheets, data bases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies; and develops intermediate-level skills. **Course can count for one credit of Technology Applications.**

Business Computer Information Systems II

PEIMS Number: 12031300* (ADVBCIS1)

Grade Placement: 10-12; Credit: ½-1; Prerequisite: BCIS I

Provides advanced technology skills required in the business environment; includes workplace technology standards in applications of word processing, spreadsheets, data bases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies; and develops advanced level skills.

Course can count for one credit of Technology Applications.

WBL/Business Computer Information Systems II

PEIMS Number: 12031300****

Grade Placement: 10-12; Credit: 2-3; Prerequisite: BCIS I

Provides advanced technology skills required in the business environment; includes workplace technology standards in applications of word processing, spreadsheets, data bases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies; and develops advanced level skills.

Course can count for one credit of Technology Applications.

Business Image Management and Multimedia

PEIMS Number: 12022300* (BUSIM/MM)

Grade Placement: 10-12; Credit: ½-1; Recommended Prerequisite: Keyboarding

Develops proficiencies in designing, importing, and manipulating advanced text, graphics, audio, and video used in presentation management, multimedia productions, publishing systems, and emerging technologies.

Course can count for one credit of Technology Applications

Health Science Technology Education

Health Science Technology I

PEIMS NUMBER: 12101300* (HSTI)

Grade Placement: 9-12; Credit(s): 1-2; Recommended Prerequisites: Introduction to Health Science Technology and Biology

A course designed to develop health-care-specific knowledge and skills in effective communications, ethical and legal responsibilities, client care, safety, first aid, and CPR. This course prepares the student for the transition to clinical or work based learning experiences in health care.

Health Science Technology II

PEIMS NUMBER: 12101400 (HSTII)

Grade Placement: 11-12; Credit(s): 2-4; Recommended Prerequisites: Health Science Technology I, Biology, Chemistry

A course designed to provide for the development of multi-occupational knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as pre-employment laboratory, clinical rotation, or paid or unpaid work based learning.

Health Science Technology Independent Study

PEIMS NUMBER: 12131320* (HSTIS)

Grade Placement: 12; Credit: ½-1; Recommended Prerequisite: Health Science Technology II

A project-based learning experience developed by a student or group of students and an interdisciplinary mentor team. The project provides opportunities for an in-depth study of at least one aspect of the health care industry. The student or group demonstrates the ability to utilize a variety of resources, advanced technology, and communication skills in the development and presentation of a project. This project-based course meets one of the Distinguished Achievement Program measures.

Introduction to Health Science Technology

PEIMS NUMBER: 12101200* (INTROHST)

Grade Placement: 9-12; Credit: ½-1; Recommended Prerequisites: None

This course gives an overview of the therapeutic, diagnostic, environmental, and informational systems of the health care industry. The focus is on career exploration, leadership development, ethical and legal issues, and the history, economics, and trends in financing health care. Students will develop a concept of health and wellness from the perspective of a health consumer as well as a potential professional in the health care industry.

Medical Terminology

PEIMS NUMBER: 12121220* (MEDTERM)

Grade Placement: 9-12; Credit: ½; Recommended Prerequisite: None

A course designed to develop a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

Pathophysiology

PEIMS NUMBER: 12112150* (PATHO)

Grade Placement: 11-12; Credit: ½ Science Credit; Recommended Prerequisite: Biology, Chemistry, Anatomy and Physiology of Human Systems

In this course, students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. The course must include at least 40% laboratory investigation and fieldwork using appropriate scientific inquiry.

Family and Consumer Science Education

PL/Food Production, Management, and Services I

PEIMS Number: 122T5221* (FDPMS-I); Recommended Grade Placement: 11-12;

Credits: 2-3; Recommended Prerequisites: Nutrition and Food Science, as well as Food Science and Technology

This course provides occupationally-specific training designed to develop knowledge and skills for employment in the area of food production, management, and services.

Instruction includes operation and management of foodservice establishments, marketing strategies, quantity food production skills, food presentation and service techniques, and technology applications in the foodservice industry. Legal considerations, customer service, career options, and managing multiple family, community, and career roles are contained in the content.

Apparel

PEIMS Number: 12207210* (APPAREL)

Recommended Grade Placement: 10-12; Credit: ½; Recommended Prerequisite: None

This technical laboratory course focuses on apparel from the perspectives of personal decision making related to apparel, the apparel industry, and career preparation. 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 career roles.

Nutrition and Food Science

PEIMS Number: 12204210* (NU&FDSCI)

Recommended Grade Placement: 10-12; Credit: ½; Recommended Prerequisite: None

This technical laboratory course concentrates on nutrition, food choices, and food management skills for individuals and the family throughout the life cycle. Instruction addresses nutrition and food science from the perspective of food habits and wellness; menu planning; special dietary needs; food costs and budgeting; consumer food-buying strategies; food safety and sanitation procedures; food labels; technology implications; and food handling, storage, and preparation practices. Meal etiquette; career options; and techniques for managing multiple family, community, and career roles are part of the content

Individual and Family Life

PEIMS Number: 12202210* (INDV&FAM)

Recommended Grade Placement: 10-12; Credit: ½; Recommended Prerequisite: None

This technical course is designed to focus on personal development, interpersonal relationships, effective individual and family functioning, and career preparation - all within a changing society. The 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 the roles, responsibilities, and impact of the family on individuals and society; promoting and strengthening the family unit; and managing multiple family, community, and career roles.

Personal and Family Development

PEIMS Number: 12201210* (PERFAMDV)

Recommended Grade Placement: 9-12; Credit: 1; Recommended Prerequisite: None

This comprehensive laboratory course is designed to address a broad range of knowledge and skills related to personal development and management, promotion of strong families, and preparation for adult roles. Content includes a focus on interpersonal skills; decision-making; promotion of family strengths and well-being; developing positive relationships with peers; child development and care; and clothing

selection and maintenance. Other studies address nutrition and dietary practices; food selection and preparation; budgeting and consumer-buying practices; and management of family housing needs. Influences of societal and technological changes, career options, and the management of multiple family, community, and career roles are included.

Preparation for Parenting

PEIMS Number: 122T3210* (PREP-PAR)

Recommended Grade Placement: 10-12; Credit: ½; Recommended Prerequisite: None

This technical laboratory course is designed to provide individuals 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 crises, managing multiple roles of family members throughout the life cycle, and career preparation are additional topics.

Child Development (CHLD-DEV)

PEIMS NUMBER: 122T3310*

Recommended Grade Placement: 10-12; Credit: ½; Prerequisite: None

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, and the management of multiple community and family roles.

Trade and Industrial Education

Introduction to Cosmetology

PEIMS number: 12568103* (ICOSM)

Recommended Grade Placement: 9-12; Credit: ½-1; Recommended Prerequisite: None

This course will allow the student to explore such areas as hair styling, manicuring, shampooing and the principles of hair cutting, hair coloring and facial makeup. Upon completion of this course, the student will have a better understanding of the art and science of beauty care

Cosmetology I--PEIMS Number: 12568101* (CSMT)

Cosmetology II--PEIMS Number: 12568102* (CSMT2)

Grade Placement: 10-12; Credits: 2-3; Recommended Prerequisite: Introduction to Cosmetology

This course is a planned 1500 clock hour, two-year sequence of classroom and laboratory instruction, 1000 laboratory clock hours plus 500 academic hours awarded upon the completion of the 1000 laboratory hours. Instruction is designed to provide job-specific training for entry-level employment in cosmetology careers. Instruction includes sterilization and sanitation processes, shampooing and rinsing hair, application of conditioning creams and color rinses, application of scalp and hair treatments, shaping and thinning hair, hair-styling, permanent waving, hair coloring, manicuring, facial

massage and make-up, and meets the Texas Department of Licensing and Regulations Commission requirements for licensure upon passing state exam.

Automotive Collision Repair--PEIMS Number: 12579301* (ACRRT)

Automotive Collision Repair--PEIMS Number: 12579302* (ACRRT2)

Grade Placement: 10-12; Credit(s): 2-3; Recommended Prerequisite: None

Instruction is designed to provide job-specific training for entry-level employment in the automotive after-market field of auto body repair and refinishing. Instruction emphasizes frame and body repair; metal, fiberglass, and synthetic materials repair; welding skills; preparation and application of primers and paints.

Automotive Technician I--PEIMS Number: 12579102*

Automotive Technician II--PEIMS Number: 12579103*

Grade Placement: 10-12; Credit(s): 2-3; Recommended Prerequisite: None

Instruction is designed to provide job-specific training for entry-level employment in the automotive engine repair and service career field. First-year instruction emphasizes use of repair manuals, service and/or repair of basic automobile components—fuel systems, engines, emission controls, power trains, chassis, electrical systems, brakes, heating and air conditioning. Second-year instruction is designed to enhance job-specific training for employment in automotive engine repair and service career field.

Introduction to Transportation Services

PEIMS Number: 12579104* (ITSC)

Grade Placement: 10-12 ;Credit: ½-1; Recommended Prerequisite: None

A cluster course designed to provide a broad basic understanding of career opportunities and training requirements and introduce skills in six transportation-related service careers: aircraft mechanics, auto body and collision repair, automotive technology, diesel engine mechanics, small engine repair, and mechanics.

Building Trades I--PEIMS NUMBER: 12522703* (BLDGTR)

Building Trades II--PEIMS NUMBER: 12522704* (BLDGTR2)

Building Trades III

Grade Placement: 10-12; Credits: 2-3; Recommended Prerequisite: Introduction to Construction Careers

First-year instruction is designed to provide job-specific training for entry-level employment in construction-related careers_ carpenter, bricklayer/stone mason, electrician, plumber, painter and decorator. Second-year instruction is designed to enhance entry-level training and employment in one of the five construction-related areas. Third-year advanced instruction is designed to offer seniors the opportunity to study, in-depth, aspects of the building/construction trades industry, such as blueprint reading/specifications, site preparation and layout, cabinetry and millwork, building construction, electricity and electrical wiring. Emphasis may be placed on industrial/heavy construction-related careers in such additional areas as form setting, framing, load rigging, and cutting.

Introduction to Construction Careers

PEIMS NUMBER: 12522707* (ICC)

Grade Placement: 9-12; Credits: ½-1; Recommended Prerequisite: None

A cluster course designed to provide a basic understanding of career opportunities, training requirements, and minimal skills in seven construction-related careers_ heating, ventilation, air-conditioning, and refrigeration (HVACR), bricklaying/stone masonry, carpentry, electrical trades, painting and decorating, plumbing/pipefitting, and industrial/heavy construction.

Crime in America

PEIMS Number: 12568704* (CAM)

Grade Placement: 11-12; Credit: ½-1; Recommended Prerequisite: Concurrent with Introduction to Criminal Justice

A course designed to introduce the student to American crime problems in an historical perspective; social policy affecting crime; impact and crime trends; social characteristics of specific crimes; and prevention of crime. This course can be part of a Tech-Prep coherent sequence in Criminal Justice with appropriate approval.

Technical Introduction to Criminal Justice

PEIMS Number: 1256870***** (TICJ)

Grade Placement: 11-12; Credits: 1/2 – 1; Recommended Prerequisite: Concurrent with Crime in America

A course designed as a study of the history and philosophy of criminal justice and its ethical considerations. Crime is defined. Its nature and impact are explored. Instruction includes an overview of the criminal justice system, law enforcement and the court systems, a study of prosecution and defense, trial processes, and corrections and penal systems. This course can be part of a Tech-Prep coherent sequence in Criminal Justice with appropriate approval.

Heating, Ventilation, Air-Conditioning and Refrigeration I

PEIMS NUMBER: 12523101* (A-CREF)

Heating, Ventilation, Air-Conditioning and Refrigeration II

PEIMS NUMBER: 12523102* (A-CREF2)

Grade Placement: 10-12; Credits: 2-3; Recommended Prerequisite: Introduction to Construction Careers

First-year instruction is designed to provide job-specific training for entry-level employment in the expanding labor market for heating, ventilation, air-conditioning and refrigeration installation and service. Second-year instruction is designed to enhance job-specific training for entry-level employment.

Technology Applications (not CTE)

Digital Graphics/Animation:

PEIMS Number:

Grade Placement: 9-12; Credit: 1; Prerequisite: Computer Literacy, Grades 6-8

Through the study of technology applications foundations, including technology-related terms, concepts, and data input strategies. Students learn the efficient acquisition of information includes the identification of task requirements; the plan and evaluate the acquired information. By using technology as a tool that supports the work of individuals

and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results. A variety of technologies will be used. The student demonstrates knowledge and appropriate use of hardware components, software programs, and their connections. Student will demonstrate knowledge and appropriate use of operating systems, software applications, and communication and networking components; and compare, contrast, and appropriately use the various input, processing, output, and primary/secondary storage devices. Student will make decisions regarding the selection, acquisition, and use of software taking under consideration its quality, appropriateness, and effectiveness.