



A Community Workforce And Education

Partnership Program

2007-2009 **Catalog of Courses**

Table of Contents

- I. Mission**
- II. Vision**
- III. Values**
- IV. Academic Calendar 2005-2006**
- V. Students Rights**
- VI. Getting Started**
- VII. Corporate & Community Development**
- VIII. Marketable Skills**
- IX. Programs of Study**
- X. Course Description**
- XI. Staff**

Mission Statement

**Serving The Regional Area
To
Stimulate Economic Development**

***Central Texas Technology Center
CTTC***

The Central Texas Technology Center is a campus of the Alamo Community College District (ACCD) dedicated to provide workforce development training to the regional area.

The CTTC offers a wide range of academic and technical programs to include the granting of Associate Degrees through the 4 colleges of the ACCD.

The CTTC will provide opportunities for creative development, service for the public good and exemplary teaching.

Central Texas Technology Center
2189 FM 758
New Braunfels, TX 78130
830-609-2100 (voice)
830-609-2198 (fax)
www.accd.edu
off-campus sites
CTTC

City of New Braunfels Embarks on the Development of a Comprehensive Economic Development Plan (1997-99). The Plan Identified:

- A Post Secondary/Higher Education Training Facility Was Deemed Essential to the Economic Competitiveness of the Region
- The Higher Education Task Force Is Formed in September 1999. Composed of equal representatives from City, County, Schools and Business Community.

Community Role Workforce Development

- ♦ **Purpose** - To respond to employer workforce needs through training, education and customized programs. Workforce Customized Training will utilize Just-In-Time (JIT) delivery which will provide employers with a rapid response system for on-demand training.
- ♦ **CTTC Designation** – District Workforce Specialty Campus of the Alamo Community College District and a 22nd Century Technological delivery site.
- ♦ **Workforce Specialty Campus** - CTTC can draw the best programs from any of the 5 colleges of the ACCD to deliver that instruction in this regional area.

Community Role Workforce Development

- ♦ The CTTC is the prime ingredient to accelerate the creation and expansion of high-skill, high-wage jobs in the regional areas.
- ♦ The ACCD work closely with local and state government in adopting creative and innovative schemes which promote economic development.
- ♦ Customized Training can be tailored to offer upward job mobility and development of basic workplace and advanced technical job skills.
- ♦ Corporate customized training can be accomplished at the CTTC or within the company site.
- ♦ Partnerships with business and industry enhance the quality of instruction by providing potential employees with real world experience and exposure to state of the art equipment.
- ♦ Establish a pipeline of entry level trainees based on demand and emerging occupations utilizing academies and dual credit models.

PARTNERSHIP

Community Education Programs

- ♦ **Central Texas Technology Center**
 - **Manufacturing**
 - **Construction Trades**

- Health Service
- ♦ Texas Workforce Center—One-Stop
 - Career Counseling and Job Success Skills
- ♦ Seguin Adult Education Cooperative
 - Industry-Based GED Curriculum
 - Medical-Based ESL Curriculum

Initial Technical Programs Credit

- ♦ Automotive Technician
- ♦ Manufacturing
- ♦ Welding
- ♦ Home Building
- ♦ Drafting
- ♦ Professional Pilot
- ♦ Aircraft Maintenance – Phase 2

Dual Credit/Tech Prep

- ♦ Auto Tech - TPC
- ♦ Manufacturing - TPC
- ♦ Welding - TPC
- ♦ Home Building - TPC
- ♦ Professional Pilot – Dual Credit Only

Community Education Programs

INDUSTRY-BASED GED PREPARATION / IGED

- ♦ Curriculum Blended with Manufacturing and Construction Terminology
- ♦ Computer Basics using Cutting-Edge Technology
- ♦ Hands-on, Job Relevant Instruction
- ♦ Job Success Skills

- ◆ Career Counseling
- ◆ Job Placement Assistance
- ◆ College Placement and Financial Aid Guidance
- ◆ Flexible Schedules—Day and Evening

Community Education Programs

MEDICAL-BASED ENGLISH FOR SPEAKERS OF OTHER LANGUAGES / MESL

- ◆ Curriculum Blended with Medical Terminology
- ◆ Computer Basics using Cutting-Edge Technology
- ◆ Hands-on, Job Relevant Instruction
- ◆ Citizenship Guidance
- ◆ Job Success Skills
- ◆ Career Counseling
- ◆ Job Placement Assistance
- ◆ College Placement and Financial Aid Guidance

Certificates of Completion, AAS, Marketable Skills, and Workforce Training

- ✓ Home Building
- ✓ Automotive (NATAF)
- ✓ Manufacturing Production Worker/Assembler
- ✓ Welding
- ✓ Computers – Microsoft IT Academy
- ✓ Accounting Tech
- ✓ General Education
- ✓ GED/Basic Skills
- ✓ Emergency Medical Tech (EMT)
- ✓ Law Enforcement

**Central Texas Technology Center
Marketable Skills Certification**

Automotive Technology

12 Credit Hours

1. AUMT 1305 – Intro to Automotive
2. AUMT 1307 – Electrical/Electronics
3. AUMT 1310 – Automotive Brakes
4. AUMT 1316 – Steering & Suspensions

Welding Gas

11 Credit Hours

1. WLDG 1413 Introduction to Blueprint Reading for Welders
2. WLDG 2439 Advanced Oxy-Fuel Welding
3. OSHT 2309 Safety Program Management

Welding ARC

13 Credit Hours

1. WLDG 1413 Introduction to Blueprint Reading for Welders
2. WLDG 1428 Intro to Shield Arc Welding
3. WLDG 2543 Advanced Shield Arc Welding

Welding MIG

12 Credit Hours

1. WLDG 1413 Introduction to Blueprint Reading for Welders
2. WLDG 1428 Intro to Shield Arc Welding or WLDG 2447 Advanced Gas Metal Arc Welding (Flux Core)
3. WLDG 1430 Intro to Gas Metal Arc Welding

Manufacturing – Machinist – MILL

13 Credit Hours

1. MCHN 1439 Machining I
2. MCHN 1302 Machinist II
3. MCHN 1320 PMI
4. OSHT 2309 Safety Program Management

Manufacturing – Machinist – LATHE

13 Credit Hours

1. MCHN 1408 Basic Lathe
2. MCHN 1302 Machinist II
3. MCHN 1320 PMI

4. OSHT 2309 Safety Program Management

Manufacturing – Plastics

14 Credit Hours

1. PLTC 1301 Introduction to Plastics
2. PLTC 1445 Plastic Processes I
3. PLTC 2346 Plastic Processes II
4. PLTC 1445 Plastic Material and Testing

Manufacturing – Production Worker

14 Credit Hours

1. MCHN 1238 Machining I
2. WLDG 1221 Intro to Welding Fundamentals
3. OSHT 2309 Safety Program Management
4. MCHN 1254 Intermediate Machining II
5. WLDG 1225 Intro to Oxy Fuel Welding and Cutting
6. QCTC 1301 Total Quality Management

Manufacturing – Robotics

14 Credit Hours

1. RBTC 1305 Robotic Fundamentals
2. RBTC 1301 PLC
3. RBTC 2239 Robot Programming and Diagnostics
4. RBTC 2335 Computer Integrated Manufacturing (CIM)
5. OSHT 2309 Safety Program Management

Allied Trades - Home Building

11 Credit Hours

1. CNBT 1311 Construction Methods and Materials
2. CNBT 1405 Blue Print Reading
3. CNBT 1416 Construction Technology I

Allied Trades - Home Building – HVAC

12 Credit Hours

1. HART 1403 AC Control Principles
2. HART 1407 Refrigeration Principles I
3. HART 1441 Residential Air Conditioning

Allied Trades - Home Building – Plumbing
12 Credit Hours

1. PFPB 1413 Introduction to Plumbing Trade
2. PFPB 1421 Plumbing Maintenance and Repair
3. PFPB 2447 Plumbing and Pipe Fitting Safety

Allied Trades – Home Building – Electrical
12 Credit Hours

1. ELPT 1411 Basic Electrical Theory
2. ELPT 1419 Fundamentals of Electricity I
3. ELPT 1429 Residential Wiring

Introduction to Microsoft Office Specialist
12 Credit Hours

1. ITSW 1301 Introduction to Word Processing
2. ITSW 1304 Introduction to Spread Sheets
3. ITSW 1307 Introduction to Database
4. ITSW 1310 Presentation Media Software

Network Support Administrator
14 Credit Hours

1. ITMC 1401 Microsoft Windows Network & Operating System Essentials
2. ITMC 1441 Implementing Microsoft Windows Professional & Server
3. ITSC 1305 Intro To PC Operating System
4. ITSC 1325 Personal Computer Hardware

Diesel Mechanic Helper I
12 Credit Hours

1. DEMR 1406 Diesel Engine I
2. DEMR 1405 Basic Electrical System
3. DEMR 1417 Basic Brake System

Diesel Mechanic Helper I
11 Credit Hours

1. DEMR 1329 Preventive Maintenance
2. DEMR 1416 Basic Hydraulics
3. DEMR 1421 Power Train I

Industrial Electrical I
12 Credit Hours

1. ELPT 1411 Basic Electrical
2. ELPT 1441 Motor Controls
3. ELPT 2419 PLC I

Industrial Electrical II
11 Credit Hours

1. ELPT 2455 PLC II
2. INMT 2345 Industrial Troubleshooting
3. CETT 1429 Solid State Devices (Basic)

Academics/Natural Sciences

The CTTC offers a variety of academic and natural science courses.

- ♦ **Academics – English, Math, History, Government, Computers, Social Work, Enhancement Courses 0300 series, etc.**

Natural Science – Physiology & Anatomy

- ♦ **I, Physiology & Anatomy II, Principles of Biology I, Astronomy.**

Academics

CORE

ENGL 0301	Basic English I		3
MATH 0300	Basic Mathematics		3
MATH 0301	Introduction to Algebra & Geometry		3
MATH 0302	Elementary Algebra		3
MATH 0303	Intermediate Algebra		3

Liberal Arts

Composition & Communication (9-10 semester hours)

ENGL 1301	Freshman Composition I		3
ENGL 1302	Freshman Composition II		3
SPCH 1311	Fundamental of Speech	OR	3
SPAN 1411	Elementary Spanish		4

Social & Behavioral Sciences (15 semester hours)

GOVT 2301	American/TX: National & State		3
GOVT 2302	American Gov't.: Problems & Policies		3
GOVT 2305	American Government I		3
GOVT 2306	American Government II		3
HIST 1301	History of the US I		3
HIST 1302	History of the US II		3
HUMA 1301	Introduction to the Humanities	OR	3
SOCI 1301	Introduction to Sociology	OR	3
PSYC 2301	General Psychology	OR	3
PHIL 1301	Introduction to Philosophy		3

Natural Sciences (8 semester hours)

BIOL 1408	Principles of Biology I		4
BIOL 1409	Principles of Biology II		4
BIOL 2401	Human Anatomy & Physiology I		4
BIOL 2402	Human Anatomy & Physiology II		4

<u>Mathematics/ Computer Literacy</u>		(6 semester hours)
MATH 1314	College Algebra	OR 3
COSC 1301	Computer Literacy	OR 3
ITSC 1301	Introduction to Computers	3
<u>Humanities, Literature & Visual Performing Arts</u>		(6 semester hours)
ITSW 1301	Introduction to Word Processing	OR 3
ARTS 1301	Art Appreciation	OR 3
MUSI 1306	Music Appreciation	3
<u>Kinesiology</u>		(2 semester hours)
KINE 1238	Concepts of Fitness	2
<u>Major Course Requirements</u>		(6-7 semester hours)
SPCH 1318	Interpersonal Communication	3
ECON 2301	Principles of Macroeconomics	3
ECON 2302	Principles of Microeconomics	3
<u>Electives</u>		(8 semester hours)
Eight semester hours of elective credit as approved by advisor		
Total Credit Hours:		43-44

COURSE DESCRIPTION

ARTS 1301 ART APPRECIATION

Comparison of the Texas and US constitutions, federalism, citizenship, voting, and local government with emphasis on Texas

GOVT 2302 AMERICAN GOVERNMENT: PROBLEMS AND POLICIES
A general survey course in American government covering the theories and concepts of government, politics, public opinion, parties, human rights problems, and functions of national , state and local government.

GOVT 2305 AMERICAN GOVERNMENT (FEDERAL)
A general survey course in American government covering the theories and concepts of government, politics, public opinion, parties, human rights problems, and functions of national, state, and local government.

GOVT 2306 AMERICAN GOVERNMENT II (STATE)
Comparison of the Texas and US Constitution, federalism, citizenship, voting, and local government with emphasis on Texas.

HIST 1301 HISTORY OF THE UNITED STATES I
A general survey of United States history form the discovery of America through the Civil War era.

HIST 1302 HISTORY OF THE UNITED STATES II
A general survey of United States history form the Civil War era to the present.

HUMA 1301 INTRODUCTION TO THE HUMANITIES I
The historical, cultural, philosophical, literary, and architectural developments of Western Civilization will be studied from its origins through the Renaissance.

ITSC 1301 INTRODUCTION TO COMPUTERS
Overview of computer information system. Introduces computer hardware, software, procedures, and human resources.

ITSW 1301 INTRODUCTION TO WORD PROCESSING
An overview of the production of documents, tables, and graphics.

KINE 1238 CONCEPTS OF FITNESS
Students will participate in a physical activity program while exploring Internet sources to gain knowledge about the scientific principles o which Fitness/Wellness programs are founded . Course topics will include; healthy activity choices, stress management; body composition; healthy eating; and cardiovascular fitness, strength and flexibility programs.

MATH 0300 BASIC MATHEMATICS
Topics include operations and powers of whole numbers, fractions, decimals, and integers; ratio and proportion; percents; interpreting charts and graphs; and linear equations involving one operation .

MATH 0301 INTRODUCTION TO ALGEBRA & GEOMETRY

Topics include problem-solving, inductive and deductive reasoning, informal geometry, linear equations, and introduction to polynomials and exponent's

MATH 0302 ELEMENTRY ALGEBRA

Topics include polynomials, integral exponents, scientific notation, factoring, rational expressions, linear equations, and inequalities, graphs of linear equations and inequalities, solutions of quadratic equations, and rational expressions and equations.

MATH 0303 INTERMEDIATE ALGEBRA

Topics include introduction to relations and functions, radical expressions and equations, rational exponents, complex numbers, quadratic equations, and inequalities, completing the square, absolute value equations and inequalities, systems of equations, determinants and Cramer's Rule, and the sue of these concepts in problem solving.

MATH 1314 COLLEGE ALGEBRA

Topics include functions, including algebra of functions, including algebra of functions, composites, inverses, graphs, Remainder Theorem, Factor Theorem, Rational Root Theorem, logarithmic and exponential functions; systems of equations using Cramer's Rule, matrices and determinants; Binomial Theorem; and arithmetic, and geometric sequences and series with Sigma notation.

MUSI 1306 MUSIC APPRECIATION

Introduction to music for the college student. It's basic elements major forms, genres and style periods. Recital and concert, radio, television programs make up required listening projects.

PHIL 1301 INTRODUCTION TO PHILOSOPHY

Investigates fundamental questions regarding life, truth, freedom, the nature of human kind, social, and political theory, and the existence of God.

PSYC 2301 GENERAL PSYCHOLOGY

A study of the foundations and principles of behavior. The brain, motivation, emotions, learning theories, sensations, and personality theories will be studied.

SOCI 1301 INTRODUCTION TO SOCIOLOGY

Designed to achieve insights into the development and working of society. It includes a study and analysis of cultural factors which underlies social change, social organization, socialization, stratification, social institutions, and social issues.

SPAN 1411 ELEMENTARY SPANISH

Teaching of the fundamentals of Spanish in order to develop understanding, speaking, reading, and writing abilities.

SPCH 1311 FUNDAMENTALS OF SPEECH

Aims at understanding and demonstrating the fundamentals of oral communication and requires participation in group speaking situations.

SPCH 1318 INTERPERSONAL COMMUNICATION

Designed for the student who wants to improve communication skills in one-to-one and group settings. Students study interpersonal concepts and practice techniques to enhance personal and professional communication.