

Alejandro (Alex) Alcoser

Computer Systems Management Technology Department Chair  
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**EDUCATION:**

M. Ed. in Educational Technology – 2011  
University of Texas at Brownsville

BAT in Workforce Leadership and Supervision - 2005  
University of Texas at Brownville

AAS in Electronics Technology - 1995  
Texas State Technical College

**PROFESSIONAL QUALIFICATIONS:**

09/2010 – Present: Texas State Technical College

Instructor/Department Chair Computer Systems Management Technology (CSMT), Harlingen, TX  
Duties include the administration and supervision of classroom and laboratory activities, faculty, faculty evaluations and faculty schedules, program student progress, and institutional and departmental regulations and policies, and other duties as assigned.

02/2008 – 09/2010: Texas State Technical College

Instructor, Computer Systems Management Technology (CSMT), Harlingen, TX

Duties include: Organize and present prepared instructional materials at scheduled times and places, maintain communications with students and colleagues to assure efficient and effective instruction, maintain records of student attendance, student progress, departmental supplies, departmental equipment, and others, maintain discipline and order during instructional activities, participate in normal program housekeeping activities, prepare daily instructional plans and instructional materials at the modular level as directed by the program chairman, evaluate the progress and performance of the student and assign grades, enforce the approved departmental rules and regulations in the classroom and lab; recommend student counseling, probation, or dismissal for excess absences, disruption of class, or lack of progress, initiate requisitions and work order requests, suspend unsafe operation, and other duties as assigned

01/2007 - 02/2008: Texas State Technical College

Teaching assistant, Computer Science and Software Development (CSSD), Harlingen, TX

Duties include: Assist the professional faculty member with teaching duties in the

classroom, laboratory, computer laboratory, or shop as directed, tutor students over materials already covered by the instructor, including conducting reviews for tests, assist students as they conduct laboratory work, grade papers, exercises, and tests by use of predetermined objective criteria, process student records and maintains student files, prepare the laboratory for class, secure equipment after class and set up and disassemble laboratory experiments, test new lab equipment for quality and accuracy, perform routine maintenance and repair on laboratory equipment and other instructional aides, aid the professional staff in the construction of training aids, initiate requisitions for consumable supplies and equipment repairs, and other duties as assigned

9/2005 – 12/2006 Texas State Technical College

Teaching Lab Assistant, Electronic Engineering Technology (EET), Harlingen, TX

Duties include: Assist the professional faculty member with teaching duties in the classroom, laboratory, computer laboratory, or shop as directed, tutor students over materials already covered by the instructor, including conducting reviews for tests, assist students as they conduct laboratory work, grade papers, exercises, and tests by use of predetermined objective criteria, process student records and maintains student files, prepare the laboratory for class, secure equipment after class and set up and disassemble laboratory experiments, test new lab equipment for quality and accuracy, perform routine maintenance and repair on laboratory equipment and other instructional aides, aid the professional staff in the construction of training aids, initiate requisitions for consumable supplies and equipment repairs, and other duties as assigned

09/1997 – 9/2005: Texas State Technical College

Lab Assistant, Electronic Technology (ELT), Harlingen, TX

Duties include: Assist the professional faculty member with teaching duties in the classroom, laboratory, computer laboratory, or shop as directed, tutor students over materials already covered by the instructor, including conducting reviews for tests, assist students as they conduct laboratory work, prepare the laboratory for class, secure equipment after class and set up and disassemble laboratory experiments, test new lab equipment for quality and accuracy, perform routine maintenance and repair on laboratory equipment and other instructional aides, aid the professional staff in the construction of training aids, initiate requisitions for consumable supplies and equipment repairs, and other duties as assigned

### **INDUSTRY WORK EXPERIENCE:**

1995-Present: Computer System Repair

Duties include repair and/or upgrades of computer systems and associated peripherals, installation and configuration of computer operating systems and applications.

1999-2003: Arcade Game Restorations

Duties include mechanical and electrical restoration of all components and subsystems of

coin operated arcade games, including motherboards, sound systems, power supplies, monitor systems, and coin door mechanisms.

**PUBLICATIONS:**

*None*

**COURSES APPROVED TO TEACH:**

**CPMT 1303 Intro to Computer Technology**

A fundamental computer course that provides in-depth explanation of the procedures to utilize hardware and software. Emphasis on terminology, acronyms, and hands-on activities.

**CPMT 1304 Microcomputer System Software**

Skill development in the installation, configuration, maintenance and troubleshooting of system software in microcomputers. Topics may include operating systems, utility software and other software affecting the basic operation of a microcomputer system.

**CPMT 1307 Electronic & Computer Skills**

A course in current electronic construction techniques including the application of the most common hand tools used in disassembly, repair, and re-assembly of electronics and computer components.

**CPMT 1311 Intro to Computer Maintenance**

Introduction to the installation, configuration, and maintenance of a microcomputer system.

**CPMT 1347 Computer System Peripherals**

Theory and practices involved in computer peripherals, operation and maintenance techniques, and specialized test equipment.

**CPMT 2302 Home Technology Integration**

Integration and maintenance of various home technology subsystems. Includes home automation, security and surveillance, home networks, video and audio networks, and structured wiring.

**CPMT 2350 Industry Certification Preparation**

Overview of the objectives for industry specific certification exam(s).

**CPMT 2380 COOP-Computer Maintenance Technology/Technician**

An intermediate or advanced course with lecture and work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. Indirect supervision is provided by the work supervisor while the lecture is provided by the college faculty or by other individuals under the supervision of the educational institution. Cooperative education may be a paid or unpaid learning experience.

CPMT 2680 COOP-Computer Maintenance Technology/Technician

An intermediate or advanced course with lecture and work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. Indirect supervision is provided by the work supervisor while the lecture is provided by the college faculty or by other individuals under the supervision of the educational institution. Cooperative education may be a paid or unpaid learning experience.

GAME 1301 Computer Ethics

Computer ethics and related ethical issues that apply to computers in the workplace, intellectual property, privacy and anonymity, professional responsibility, and the effects of globalization. Emphasizes the practical application of computer ethics through case studies and current events in the game and simulation industry.

GAME 1303 Introduction to Game Design and Development

Introduction to electronic game development and game development careers. Includes examination of history and philosophy of games, the game production process, employee factors for success in the field, and current, issues and practices in the game development industry.

ITSC 1309 Integrated Software Applications

Integration of applications from popular business productivity software suites. Instruction in embedding data, linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software.

ITSC 1321 Intermediate PC Operating Systems

Install, configure, and maintain a customized operating system; manage file operations; use system utilities to allocate and organize primary and secondary storage; manage peripheral devices; and monitor and improve system performance.

ITSC 1331 Intro to Visual Basic

Introduction to computer programming using Visual BASIC. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.

ITSC 2339 Pc Help Desk

Diagnosis and solution of user hardware and software related

problems with on-the-job and/or simulated projects in either a Help Desk lab or in short-term assignments for local business.

**ITSE 1350 System Analysis and Design**

Use system design tools; identify phases of the system design life cycle; develop a prototype; compare and contrast project management tools; and develop documentation for the system life cycle.

**BIOM 1341 Medical Circuits**

Development of skills in logical isolation of troubles in malfunctioning medical electronic circuits and utilization of appropriate test equipment.

**CETT 1303 Dc Circuits**

A study of the fundamentals of direct current including Ohm's law, Kirchoff's laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements.

**CETT 1325 Digital Fundamentals**

An entry level course in digital electronics covering number systems, binary mathematics, digital codes, logic gates, Boolean algebra, Karnaugh maps, and combinational logic. Emphasis on circuit logic analysis and troubleshooting digital circuits.

**CETT 1329 Solid State Devices**

A study of diodes, transistor characteristics and other semiconductor devices, including analysis of static and dynamic characteristics, biasing techniques, and thermal considerations.

**CETT 1345 Microprocessors I**

An introductory course in microprocessor software and hardware; its architecture, timing sequence, operation, and programming; and discussion of appropriate software diagnostic language and tools.

**CETT 1349 Digital Systems**

A course in electronics covering digital systems. Emphasis on application and troubleshooting digital systems using counter, registers, code converters, multiplexers, analog-to-digital to-analog circuits, and large-scale integrated circuits.

**CETT 1409 Dc/Ac Circuits**

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.