Barstow Community College Catalog Addendum

2017-2018

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COURSE OFFERINGS

ACCT 1A   **Principles in Accounting**
Units   3
Lecture   3 hrs
Lab   1 hrs
Available Online/Hybrid
This course provides a broad overview of the financial accounting process encompassing double entry bookkeeping, recording and processing of accounting information and the creation and interpretation of financial statements. Topics addressed are current asset management, accounts payable billing, stock holder's equity, internal controls, and cost recovery. Partnership and Corporation accounting along with capitalization structures are examined. The importance of short and long-term financing are reviewed along with discussion and analysis of cash flow analysis and financial statements. Grade Option: (A-F), P/NP. Degree Applicable Credit. Major Credit. UC/CSU

ACCT 1B   **Principles of Accounting**
Units   3
Lecture   3 hrs
Lab   1 hrs
Available Online/Hybrid
Prerequisite – ACCT 1A with a grade of "C" or better
This course examines how managers apply accounting information in decision making, planning and directing operations. The course focuses on cost accounting concepts involving budgeting, cost behavior and structure, and cost-volume-profit analysis. Performance analysis in manufacturing and service environments are examined along with forecasting and strategic planning. Grade Option: (A-F), P/NP. Degree Applicable Credit. Major Credit. UC/CSU

AHLT 4   **Intercollegiate Volleyball (Women)**
Units   2
Activity   175 hrs
Provides an opportunity for inter-conference, invitational, sectional, or state competition in volleyball. Advanced techniques and strategies of competitive volleyball and the development of mental, muscular, and cardiovascular endurance will be stressed. This course may be taken three times for credit. 175 hours total each session. Grade Option: (A-F), P/NP. Degree Applicable Credit. UC/CSU

COURSE OFFERINGS

AHLT 55A   **Emergency Medical Technician Basic (EMSA Certification)**
Units   **8**
Lecture   **145 hrs**
Lab   **15 hrs**
Prerequisite - Minimum state age is 18 years of age – Must have current "Healthcare Provide' or equivalent CPR card prior to enrolling
Success completion of this course will qualify the student for National Registry of EMT's Testing/Certification which is required by the state of California and the Inland counties Emergency Medical Agency (ICEMA). 160 hours total (includes a minimum of 15 hours clinical). Grade Option: (A-F), P/NP. Degree Applicable credit. Major Applicable.

AUTO 57   **Heating and Air Conditioning**
Units   **4**
Lecture   **3 hrs**
Lab   **3 hrs**
This course covers diagnosis and repair of modern automotive air conditioning and heating systems. Topics covered will include evaporators, compressors, metering devices, condensers, blowers, heater cores, connecting lines, mechanical and electrical temperature controls. Air conditioning and heating components will be disassembled, inspected, evaluated serviceability of existing parts, determine need for replacement parts and reassemble. Training of recovery, recycling, and recharging machine. Future trends and retrofit of R-12 to R134a systems. Grade Option: (A-F), P/NP. Degree Applicable.

BADM 3   **Entrepreneurship**
Units   **3**
Lecture   **3 hrs**
Lab   **0**
Available Online/Hybrid
This is an introductory course that focuses on the actual tasks and activities of the entrepreneur, from reaching venture feasibility, to launching the venture, to managing growth. Covered are descriptions of real entrepreneurs in action, facing the challenges that entrepreneurs must deal with, and making good and even some not-so-good decisions. This study relates the excitement of the entrepreneurial adventure. Emphasis in this course will be placed on the different aspects of entrepreneurship. It will also provide the learner and opportunity to critically analyze several components which will challenge them to apply the key decisions that must be made by entrepreneurs in real world experiences. The ultimate object of the course is to enable the learner to evaluate and to solve problems involving entrepreneurship ant to effectively communicate their recommendations to others. Grade Option: (A-F). Degree Applicable. CSU

COURSE OFFERINGS

BIOL 12   Biochemistry
Units   3
Lecture   3 hrs
Lab   0
Available Online/Hybrid
Prerequisite – BIOL 2, CHEM 1 with a grade of "C" or better or one year of high school Chemistry

A survey of the basic principles of biochemistry covering the structure and function of proteins, lipids, carbohydrates, enzymes, nucleic acids, metabolism, kinetics and energy. Cross-listed with CHEM 12. Grade Option: (A-F), P/NP. Degree Applicable Credit. UC/CSU

BOTE 40   Spreadsheet Applications
Units   4
Lecture   3hrs
Lab   3hrs
Available Online/hybrid
Prerequisite – CSIS 1

An introductory course in the principles of spreadsheets. The student will develop skill in the use of spreadsheets to create and print computerized spreadsheet data in the solution of common business problems. Current software in place includes Microsoft Excel for Pentium computers.

CHEM 12   Biochemistry
Units   3
Lecture   3
Lab   0
Available Online/Hybrid
Prerequisite – BIOL 2, CHEM 1 with a grade of "C" or better or one year of high school Chemistry

A survey of the basic principles of biochemistry covering the structure and function of proteins, lipids, carbohydrates, enzymes, nucleic acids, metabolism, kinetics and energy. Cross-listed with BIOL 12. Grade Option: (A-F), P/NP. Degree Applicable Credit. UC/CSU

COURSE OFFERINGS

CHLD 49   **Practicum Field Experience**
Units   **4**
Lecture   **2 hrs**
Lab   **6 hrs**
Prerequisite: **ENGL 1A, CHLD4/PSYC4, CHLD9, and CHLD 20 with a grade of "C" or better.**
This course is designed for students to demonstrate developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will emphasized as student teachers design, implement and evaluate experiences that promote positive development and earning for all young children. Grade Option: A-F), P/NP. CSU

NOTE: The state requires proof of immunization for Measles, Whooping cough, Influenza as well as TB.

CSIS 2   **The Internet**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Available Online/Hybrid
This course will serve as an overview of the computing and networking technologies that support the Internet and the World Wide Web. Topics include : email, World Wide Web, chat, instant messaging, voice over IP, internet search, ¬le-sharing, streaming media, Web pages and Web sites, blogs, wikis, podcasting, RSS, social networking, online gaming, and eCommerce. Students will also be made aware of the various web services and have the opportunity to create a simple web page. Grade Options: (A-F), P/NP. Degree Applicable Credit. CSU

CSIS 3   **Programming in Visual Basic**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Available Online/Hybrid
Recommend – CSIS 1 with a grade of "C" or better
An introductory course in the BASIC programming language. Analysis of problems for computer solution using BASIC language. Applications drawn from business, mathematics, and physical science. UC/CSU (CAN CSCI 6)

COURSE OFFERINGS

CSIS 6   **Programming in JAVA**
Units   3
Lecture   2 hrs
Lab   3 hrs
Available Online/Hyrbrid

Introduction to computer programming using JAVA. Writing and using new objects, calling standard JAVA libraries, calling JAVA applets with HTML that will execute over the World Wide Web, and integrating JAVA with VRML and JAVASCRIPT. Emphasis on practical applications of programming. Laboratory instruction includes program development and execution. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

CSIS 10   **Computer Architecture**
Units   4
Lecture   3 hrs
Lab   3 hrs
Available Online/Hybrid

This course provides an overview of the architecture and organization of a modern computer. Topics include: data representation, digital logic, digital systems, CPU, control unit, pipelining, I/O organization, memory, storage systems, sequential and parallel architecture, instruction set architecture and programming in assembly language. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

CSIS 13   **Management Information Systems**
Units   3
Lecture   2 hrs
Lab   3 hrs
Available Online/Hyrbid

Introduces the student to management information systems concepts. The course will present a variety of data processing facilities. Course topics include: The computer as an organizational information system, systems methodologies, and the computer as a problem-solving tool, the computer-based information system, and organizational information systems. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

COURSE OFFERINGS

CSIS 14   **Internet Security**
Units   **4**
Lecture   **3 hrs**
Lab   **3 hrs**
Available Online/Hybrid
Prerequisite - CSIS or Consent of Instructor
This course will provide an overview of the field of information security and assurance. A spectrum of security activities, methods, methodologies, and procedures will be covered. Additional topics include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre and post-incident procedures, technical and managerial responses, an overview of the information security planning and staffing functions, cryptogenic techniques and applications, and security ethical and legal issues. The course covers cross site scripting, SQL injection, rootkits, and virtualization. Grade Options: (A-F), P/NP. Degree applicable credit.

CSIS 15   **Information Networking**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Available Online/Hybrid
Prerequisite – CSIS1 or Consent from Instructor
An introduction to the data communication field for the information technology student. Covers the introductory topics of hardware, software, protocols, channels, modems, local area networks, wide area networks, and various applications. Students will gain hands-on experience with current popular communications systems. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

CSIS 17   **Database Design and Management-Microsoft Access**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Available Online/Hybrid
Prerequisite – CSIS 1
Fundamentals of data base structure, design and development. Topics include user requirements, file organizations, data structure and security, database processing, database management systems, and database development. Students design and develop database applications using a popular business database program. Grade Options: (A-F), P/NP. Degree applicable credit. UC/CSU

COURSE OFFERINGS

CSIS 19   **Systems Analysis and Design**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Available Online/Hybrid
Prerequisite – CSIS 1
Traditional systems analysis and design methods and tools. Topics include role of the systems analyst, feasibility studies, modeling technique systems design, reporting and documentation, and implementation strategies. Computer-aided software engineering (CASE) tools will be utilized to design and develop information systems. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

CSIS 22A   **Business Operating Software, Using UNIX**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Available Online/Hybrid
This course introduces students to the UNIX operating system. Topics include common UNIX commands; file manipulation; editing; and the UNIX file structure. This hands-on class is designed for the computer novice or for the UNIX novice who wants to get productive with the UNIX operating system in the shortest time possible. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

CSIS 22C   **Windows Server**
Units   **1.5**
Lecture   **1 hr**
Lab   **1.5 hrs**
This course introduces students to the basic of establishing and managing a WINDOWS Server. Topics include internal architecture, system security, network configuration (with a focus on TCP/IP), the registry and services, domains and system policies, user accounts and group management, disk backup and maintenance, troubleshooting and performance optimization. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

COURSE OFFERINGS

CSIS 29A   Web Development: HTML, XHTML, and CSS
Units   3
Lecture   2 hrs
Lab   3 hrs
Available Online/Hybrid
Prerequisite – CSIS 1 or CSIS 2 with a "C" grade or better
Fundamentals of webpage development using Hypertext Markup Language (HTML) and Extensible Hypertext Markup Language (XHTML). Students will learn how to produce a multi-page Web site with text, hypertext, images, links; tables, frames, inline styles, embedded styles, and external style sheets. Cascading Style Sheets (CSS) will be covered and used to format and lay out webpage content. CSS is used to format text, links, set fonts, colors, margins and position text and graphics on a page. Grade Options: (A-F), P/NP. Degree applicable credit. CSU

CSIS 29B   Web Development: PHP+//MySQL
Units   3
Lecture   2 hrs
Lab   3 hrs
Available Online/Hybrid
Prerequisite – CSIS 1 or CSIS 2 with a "C" grade or better
This course will cover the use of PHP and MySQL to provide the skills to build professional-quality, database driven Web sites. By integrating PHP and MySQL with the XHTML and CSS frameworks, the student will develop the skills to build interactive Web sites with authentication and security. Topics include an introduction to PHP and syntax, configuring a Web server for use with PHP, programming in PHP using basic scripting, data types, looping, conditional constructs, functions, operators, lists and arrays, databases and data files, e-mail, forms, and cookies. Grade Options; (A-F), P/NP. Degree applicable credit. CSU

CSIS 29C   Web Development: Flash & Dreamweaver
Units   3
Lecture   2hrs
Lab   3 hrs
Available Online/Hybrid
Prerequisite – CSIS 1 or CSIS2 with a "C" grade or better
This course covers web development using Macromedia Flash and Dreamweaver. Animation and web-authoring tools will be used to develop and design industry-standard 3D animation and multimedia program. Students will acquire skills required to creating animations, using special effects, drawing objects, incorporating sound and video. Topics include Flash and Dreamweaver basics, tweening, toolbox, symbols, libraries, buttons, masking, graphics, animation, interactive authoring, and audio and video integration. Grade Option: (A-F), P/NP). Degree Applicable. CSU

COURSE OFFERINGS

CSIS 33   **Computer Science I with C++**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Available Online/Hybrid
Prerequisite – CSIS 1
Computer software design, implementation, methods, and environment using a current high-level language. Survey of computers, applications, and other areas of computer science. Program design, coding, debugging, and documentation using techniques of good programming style. Program development in a powerful operating environment. Grade Options: (A-F), P/NP. Degree applicable credit. CSU/UC

EDUC 1   **Introduction to Elementary Classroom Teachers**
Units   **3**
Lecture   **2.25 hrs**
Lab   **2.25 hrs**
Available Online/Hybrid
This course introduces the concepts and issues related to teaching diverse learners in today's contemporary schools, Kindergarten through grade 12 (K – 12). Topics include teaching a profession and career, historical and philosophical foundation of the American education system, contemporary educational issues, California's content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. Grade Option: (A-F), P/NP. CSU

MATH 6   **Mathematical Concepts for Elementary Teachers**
Units   **3**
Lecture   **3 hrs**
Lab   **0**
Available Online/Hybrid
Prerequisite – MATH 55A with a "C" or better
This course focuses on the development of quantitative reasoning skills through in -depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. Grade Option: (A-F). Degree Applicable Credit. CSU/UC

COURSE OFFERINGS

MUSI 7   **Beginning Jazz Ensemble**
Units   **1**
Lecture   **0**
Lab   **3 hrs**
Prerequisite - Advance level instrumental abilities
Rehearsal and performance of standard commercial orchestra literature, including original and published arrangements for dance bands, radio, television, and motion picture orchestras. Grade Option: (A-F), P/NP. Degree Applicable Credit. Area of Emphasis and Gen Ed Applicable. UC/CSU. Non-Repeatable.

MUSI 7B   **Intermediate Jazz Ensemble**
Units   **1**
Lecture   **0**
Lab   **3 hrs**
Prerequisite – MUSI 7 with a grade "C" or better
Rehearsal and performance of standard commercial orchestra literature, including original and published arrangements for dance bands, radio, television, and motion picture orchestras. Grade Option: (A-F), P/NP. Degree Applicable Credit. Area of Emphasis. UC/CSU. Non-Repeatable.

MUSI 7C   **Advanced Jazz Ensemble**
Units   **1**
Lecture   **0**
Lab   **3 hrs**
Prerequisite – MUSI 7B with a grade "C" or better
Rehearsal and performance of standard commercial orchestra literature, including original and published arrangements for dance bands, radio, television, and motion picture orchestras. Grade Option: (A-F), P/NP. Degree Applicable Credit. Area of Emphasis. UC/CSU. Non-Repeatable.

MUSI 7D   **Masters Jazz Ensemble**
Units   **1**
Lecture   **0**
Lab   **3 hrs**
Prerequisite – MUSI 7C with a grade of "C" or better
Rehearsal and performance of standard commercial orchestra literature, including original and published arrangements for dance bands, radio, television, and motion picture orchestras. Grade Option: (A-F), P/NP. Degree Applicable Credit. Area of Emphasis. UC/CSU. Non-Repeatable.

COURSE OFFERINGS

PHOT 3C **Studio and Outdoor Lighting in Digital Photography**
Units **4**
Lecture **3 hrs**
Lab **3 hrs**
Prerequisite – PHOT 2C with a grade of "C" or better
This course is designed to investigate and implement setting up a studio set for indoor/outdoor environments with appropriate use of light meters, reflectors and light modifiers. In addition, manipulating the digital cameras shutter speed and aperture for correct exposures. Grade Option: (A-F), P/NP. Degree Applicable Credit. CSU

PHOT 4C **Advanced Digital Photography**
Units **4**
Lecture **3 hrs**
Lab **3 hrs**
Prerequisite - PHOT 3C – with a grade of "C" or better
Effective implementation and understanding to retouch and restore photographs. Creating a portfolio which includes preparation of photographs for display and presentation, photographing under different types of natural and artificial lighting conditions and varying camera settings. Grade Option: (A-F), P/NP. Degree Applicable Credit. CSU

WELD 57B **Intermediate Welding, Fab and Projects**
Units **3**
Lecture **2 hrs**
Lab **3 hrs**
Prerequisite – WELD 57A with a grade of "C" or better
Designed for the welding student to again intermediate level welding fabrication and repair welding principles and skills. Also, construction of useful projects. Grade Option: (A-F). Degree Applicable Credit.

WELD 57C **Advanced Welding, Fabrication and Projects**
Units **3**
Lecture **2 hrs**
Lab **3 hrs**
Prerequisite – WELD 57B with a grade of "C" or better
Designed for the accomplished welding student to gain advanced welding fabrication and repair welding principles and skills. Also, construction of complex and useful projects. Grade Options: (A-F). Degree Applicable Credit.

COURSE OFFERINGS

WELD 58A   **Basic Pipe Welding SMAW**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Prerequisite – WELD 50, 52, 54, 55A, 55B, 56 with a "C" or better
Theory and practical application of pipe joint preparation and design. AWS (American Welding Society) and NCCER (National Center for Construction Education and Research) welding code specification for pipe and pipe fittings; electrode selections; welding blueprint and pipe welding symbols; and SMAW pipe joints. Destructive and non-destructive testing and methods of inspections and testing. Grade Options: (A-F), P/NP. Degree Applicable credit.

WELD 58B   **Basic Pipe Welding GMAW and FCAW**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Prerequisite – WELD 58A with a grade "C" or better
Theory and practical application of pipe joint preparation and design. AWS (American Welding Society) and NCCER (National Center for Construction Education and Research) welding code specifications for pipe and pipe fittings: electrode selections; welding blueprint and pipe welding symbols; and GMAW and FCAW pipe joints. Destructive and non-destructive testing and methods of inspection and testing. Grade Options: (A-F), P/NP. Degree Applicable Credit.

WELD 58C   **Basic Pipe Welding GTAW**
Units   **3**
Lecture   **2 hrs**
Lab   **3 hrs**
Prerequisite – WELD 58B with a grade of "C" or better
Theory and practical application of pipe joint preparation and design. AWS (American Welding Society) and NCCER (National Center for Construction Education and Research) welding code specifications for pipe and pipe fitting: electrode selection; welding blueprint and pipe welding symbols; and GTAW pipe joints. Destructive and non-destructive testing and methods of inspection and testing. Grade Option: (A-F), P/NP. Degree Applicable Credit.

WKFC 101   **Attitude in the workplace**
Units   **1**
Lecture   **1 hr**
Lab   **0**
Available Online/Hybrid
This course is designed to provide the participant with certain key skills in the area of attitude so that they may effectively maintain a positive attitude in the workplace and at home. The participant will be introduced to the concepts of how attitudes are communicated, the three types of attitudes, and how to adjust ones attitude. Topics will also include the primary causes of a bad attitude, turnaround strategies to battle them, and specific techniques to raise the attitude of others. Grade Option: P/NP. Non-Degree Applicable Credit. (Previously BADM 101)

COURSE OFFERINGS

WKFC 102   **Dealing with Difficult People**
Units   **1**
Lecture   **1 hr**
Lab   **0**
Available Online/Hybrid
This course will explore the causes and impact that conflict can have on customer service. Students will learn strategies and techniques for resolving tough issues, and how to turn a difficult customer into a loyal one. Grade Option: P/NP. Non-Degree Applicable Credit. (Previously BADM 102)

WKFC 106   **Managing Change**
Units   **1**
Lecture   **1 hr**
Lab   **0**
Available Online/Hybrid
This course will explore the natural tendency of employees and customers to resist change. Students will learn techniques for handling workplace change, and how to introduce change to their customers. Furthermore, change management techniques will be explored. Grade Option: P/NP. Non-Degree Applicable. (Previously BADM 106)

WKFC 107   **Team Building**
Units   **1**
Lecture   **1 hr**
Lab   **0**
Available Online/Hybrid
This course explores how working as teams in business can increase productivity, enhance project management, reduce business conflicts, and create superior customer service. Students will learn the roles in a tam and how to be both a leader and team player. Grade Option: P/NP. Non-Degree Applicable Credit. (Previously BADM 107)

WKFC 108   **Business Ethics**
Units   **1**
Lecture   **1hr**
Lab   **0**
Available Online/Hybrid
This course will explore the importance of ethics in the workplace. Students will discuss ethical lapses often displayed in commercial environments and how to correct them. Additionally, students will craft a personal philosophy of ethics and values important to their business and social dealings. Grade Option: P/NP. Non-Degree Applicable. (Previously BADM 108)

DEGREE PROGRAMS

Associate of Science, Photography

Provides the student with a broad base of technical skills in photography with additional emphasis on visual communication. It prepares students to enter the photographic field in a variety of positions such as production printer, studio photographer, photo lab technician, and free-lance photographer.

Photography Program outcomes;
Upon Completion of the Photography AS Program, the student will be able to do the following:

1. Demonstrate the technical knowledge for using the photographic digital camera.
2. Define digital photography terminology and identifies image editing software features and their proper use.
3. Create photo-based artwork that demonstrates proficiency in digital photography techniques giving completer the skill to enter or advance in the work force in the field of photography.

Major Core Requirements (20 Units)		Units
PHOT 1C	Introduction to Digital Photography	4
PHOT 2C	Digital Photography	4
PHOT 3C	Studio and Outdoor Lighting in Digital Photography	4
PHOT 4C	Advanced Digital Photography	4
PHOT 9	Introduction to Adobe Photoshop	3

Minimum Units Required in Major	**19**
General Education Requirements	**27**
Electives	**14**
Total Units Required	**60**

CERTIFICATE PROGRAMS

Child Development Associate Teacher Permit (Level I)

Certificate of Achievement

The Level I certificate is the first step in entering the career path for early childhood education. Upon completion of this level the recipient meets the minimum state requirements to teach in a private preschool and school age program. This level requires 12 units of ECE/CD. This course work aligns with California. "Child Development Associate Teacher Permit" (on the State Matrix Level additional requirements are 50 days of 3+ hours per day within 2 years). For further information on these requirements, contact the Commission on Teacher Credentialing via email at www.ctc.ca.gov or via phone at 888-921-2682 between 12:00 p.m. and 4:45 p.m. daily.

CHLD Development Program outcomes:

1. Students will apply research theories, social interrelationships and developmentally age appropriate activities, teaching strategies, and develop a curriculum based on their observations and assessments that contribute toward the development of the young child.
2. Students will advocate for the needs for support for young children and the best practices for their education.
3. Students will create a high quality learning environment that facilitates the emotional, cognitive, language, physical and social domains.

Required Courses (12 Units)		Units
CHLD 4/PSYC 4	Child Growth and Development	3
CHLD6/SOCI 6	Child, Family, Community	3
CHLD 9	Introduction to Early Childhood Education	3
CHLD 11A	Principles and Practices Early Childhood Education	3
Total Units Required		**12**

CERTIFICATE PROGRAMS

CHILD DEVELOPMENT SITE SUPERVISOR PERMIT (LEVEL IV)
CERTIFICATE OF ACHIEVEMENT

The Level IV Certificate upon completion of 25 units of ECEICD (include the 8 core lower division courses), 6 administrative units, and 3 Adult Supervision units, and 16 GE units. This course work aligns with the California: "Child Development Site Supervisor Permit". (On the State Matrix Level additional requirements are 350 days of 3+ hours per day within 4 years including 100 days of supervising adults). There are additional course work for the attainment of the Associate of Science Degree.

CHLD Development Program Outcomes:

1. Students will apply research theories, social interrelationships and developmentally age appropriate activities, teaching strategies, and develop a curriculum based on their observations and assessments that contribute toward the development of the young child.
2. Students will advocate for the needs for support for young children and the best practices for their education.
3. Students will create a high quality learning environment that facilitates the emotional, cognitive, language, physical and social domains.

Required Core Courses		Units
CHLD4/PSYC4	Child Growth and Development	3
CHLD6/SOCI6	Child, Family, Community	3
CHLD 9	Introduction to Early Childhood Education	3
CHLD 11A	Principles and Practices Early Childhood Education	3
CHLD 14	Child Health, Safety, and Nutrition	3
CHLD 20	Observation and Assessment	3
CHLD 25	Teaching in a Diverse Society	3
CHLD 49	Practicum and Field Experience	4

General Requirements Courses		Units
ORIE 1	College Success	3
ENGL 50	Basic English	3
MATH 55	Intermediate Algebra	4
PSYC 1	Introduction to Psychology	3
HUMA 1	Humanities Through the Arts	3
PEAC 30	General Activity	1

CERTIFICATE PROGRAMS

CHILD DEVELOPMENT SITE SUPERVISOR PERMIT (LEVEL IV)
CERTIFICATE OF ACHIEVEMENT
(Continued)

General Requirements Courses		Units
CHLD 19A	Administration I – Programs in Early Childhood Education	3
CHLD 19B	Administration II – Programs in Early Childhood Education	3
CHLD 19C	Adult Supervision and Mentoring in Early Care and Education	3
General Requirements		26
Core Requirements		25
Total Units Required		**51**

CERTIFICATE PROGRAMS

CERTIFICATE OF CAREER PREPARATION ELECTRICAL SKILLS LEVEL I (Low Unit)

This course of study advances student's opportunities for entry level positions in industry and service occupations requiring Electrical skills. This certificate provides a focused pathway for students to obtain knowledge and skills in the industrial electrical field. Fees outside of the ordinary enrollment fee prescribed in Education Code section 76300 will include required textbook purchases.

Program Outcomes:

1. Students will be able to apply the skills necessary for electrical procedures following the National Electrical Code (NEC) guidelines.

2. Students will be knowledgeable about the required tools, equipment, and materials of the trade and can operate them in a safe manner.

3. Students will have basic knowledge of electrical theory and utilize electrical test equipment.

General Requirements Courses		Units
ELCT 70A	Electrical Safety and Handbending	1
ELCT 70B	Fasteners and Electrical Theory	1
ELCT 70C	Electrical Test Equipment, NEC, Raceways, Boxes, Fittings and Conductors	2
ELCT 70D	Introduction of Electrical Blueprints and Residential and Commercial Writing	1
ELCT 70E	Electrical Level One Performance Testing	1
Total Units Required		**6**

CERTIFICATE PROGRAMS

CERTIFICATE OF CAREER PREPARATION

PIPE WELDING LEVEL I (LOW UNIT)

This course of study advances student's opportunities for entry level position in industry and service occupations requiring welding skills. This certificate provides a focused pathway for student's to obtain advanced knowledge and skills in Pipe Welding. Pre-requisite requirement for this program will include WELD 50, 51, 52, 54, 55B and 56. Fees outside the ordinary enrollment fee prescribed in Education Code section 76300 will include required textbook purchase.

Program Outcomes:

1. Students will be able to apply the skills necessary for advanced topics of Welding following the American Welding Society (AWS) guidelines.

2. Students will knowledgeable about the required materials of the trade and can operate equipment in a safe manner.

3. Students will have the skills necessary to receive industry recognized certification in SMAW, GMAW/FCAW, and GTAW on pipe.

General Requirements Courses		Units
WELD 58A	Basic Pipe Welding SMAW	3
WELD 58B	Basic Pipe Welding GMAW and FCAW	3
WELD 58C	Basic Pipe Welding GTAW	3
Total Units		**9**