

**SAN BERNARDINO VALLEY COLLEGE
SUBMITTED FOR BOARD OF TRUSTEE APPROVAL**

NEW COURSES			
COURSE ID		EFF DATE	RATIONALE
AUTO 063	<p>Course ID: AUTO 063 Course Title: Emission Systems Units: 4 Lecture: 3 Laboratory: 3 Prerequisite: None</p> <p>Catalog Description: This course covers design and operation of domestic and import emission control on automobiles and light trucks. Subject areas include emission control systems, computerized engine controls, emissions testing, and engine related services. Emphasis is placed on the correct diagnosis of and repair procedures for those systems. The use of current diagnostic test equipment used in today's industry and strategies necessary to determine needed repairs are covered.</p> <p>Schedule Description: This course covers design and operation of domestic and import emission control on automobiles and light trucks. Subject areas include emission control systems, computerized engine controls, emissions testing, and engine related services.</p>	FA07	Due to the increase in technological knowledge the Automotive Advisory Committee's recommendation is that the subject matter covered in this course be separated from AUTO 069.
CD 113	<p>Course ID: CD 113 Course Title: Programs and Principles in Early Childhood Education Units: 3 Lecture: 3 Laboratory: None Prerequisite: None</p> <p>Catalog Description: Introduction to the programs and principles related to working with children. Focuses on a variety of early childhood programs and the teacher's role in planning and facilitating learning by implementing developmentally appropriate standards for children age birth through eight.</p> <p>Schedule Description: Introduction to the programs and principles related to working with children. Focuses on a variety of early childhood programs and the teacher's role in planning and facilitating learning by implementing developmentally appropriate standards for children.</p>	FA07	This course is designed to focus on the programs and principles in early childhood education that support the physical, cognitive, creative, social and emotional growth for children age birth through eight. Emphasis is on assessment of programs and age appropriate goals and objectives for children, and observing and assessing children. This course satisfies training requirements for people working in the area of child development in accordance with the state and community licensing and monitoring agencies under the auspices of the California Social Services Department and the California State Department of Education.
CD 114	<p>Course ID: CD 114 Course Title: Creative Curriculum in Early Childhood Education Units: 3 Lecture: 3 Laboratory: None Prerequisite: None</p> <p>Catalog Description: The study and application of creative curriculum design principles for early childhood educational programs. Course includes planning, implementing, facilitating and evaluating developmentally appropriate activities and experiences that promote physical, cognitive, creative, social and emotional growth in children aged three to five.</p> <p>Schedule Description: The study and application of creative curriculum design principles for early childhood educational programs. Course includes planning, implementing, facilitating and evaluating activities and experiences that promote physical, cognitive, creative, social and emotional growth.</p>	FA07	This is designed to make students aware of how to appropriately present math, science, music, movement, literature and art activities to preschool children. It is important that students not water down activities from kindergarden or higher level work; and especially not to "teach to the test."
CD 127	<p>Course ID: CD 127 Course Title: Guidance of Children Units: 3 Lecture: 3 Laboratory: None Prerequisite: None</p> <p>Catalog Description: This course presents a developmental approach to the guidance and discipline of children. Effective guidance theories and methods are presented for teachers and professionals working with children, including children with special needs. Effective communication methods for early childhood educators working with children and their parents will be emphasized.</p> <p>Schedule Description: Effective guidance theories and methods are presented for teachers and professionals working with children and their parents, including children with special needs.</p>	FA07	This course is designed to give students the necessary skills to guide children's behavior in ECE programs and in the home. The focus is on understanding factors that influence behavior and learning effective positive guidance and discipline strategies that will have a positive impact on children's development. The content is based upon principles promoted by the National Association for the Education of Young Children and the California State licensing regulations. CSUSB has a Guidance course as one of their core Child Development courses. Crafton Hills has recently created a similar course for their core Child Development program and Early Learning Certificate. This course equates to the CHC course CD 250.

Curriculum Meetings: 11-20-06; 11-27-06; 12-04-06; 12-07-06; 12-11-06

Conjoint Meeting: 12-18-06

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CD 168	<p>Course ID: CD 168 Course Title: Early Literacy for Young Children Units: 3 Lecture: 3 Laboratory: None Prerequisite: CD 105 or CD 105H</p> <p>Catalog Description: The study of the principles and developmentally appropriate practices for providing children early literacy skills necessary for a strong foundation for conventional reading and writing. The course will address how to create an environment and curriculum to promote and encourage early literacy beginning at birth through age five.</p> <p>Schedule Description: This course will address how to create a developmentally appropriate environment and curriculum that promotes and encourages early literacy beginning at birth through age five.</p>	FA07	<p>The goal of this course is to transform teaching practices in classrooms to reflect the most current knowledge about how young children learn to read and write. The course will effect positive changes in classroom environments and curriculum, and will enhance teaching practices for children birth through age five.</p> <p>The tapes viewed in this course have been designed through a collaborative project of the California Reading Professional Development Institutes, The California Association for the Education of Young Children, and The Natona Head Start Association. The project was supported with state funds and a grant from the California Children and families Commission. The content is based on the latest research about how young children learn to read and write, synthesized by the National Academy of Sciences in "Preventing Reading Difficultites in Young Childre" (Snow, Burns and Griffin, 1998) and designed by the Council of Professional Recognition, Nation Head Start Association and Rise Learning Solutions.</p> <p>This course will enhance the Child Development program because it centers on early literacy, a subject matter that is not now addressed in any other class. The course focuses on the developmental continuum of reading and writing and the learning environment. This course, using current research and developmentally appropriate approaches, addresses seven different content strands; curriculum, assessment, talking (oral language), playing, reading, writing, and learning the code. Another important component is the teacher's role in promoting language and literacy by creating literacy environments for children and by involving the children's families in supporting language and literacy.</p>
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MODIFIED COURSES			
COURSE ID		EFF DATE	RATIONALE
AIRTVL 101	<input checked="" type="checkbox"/> Course ID: AIRTVL 011 <input checked="" type="checkbox"/> Catalog Description: This course is an introduction to the employment opportunities, qualifications, salary, and benefits for the travel careers industry. Includes an overview of employment in airports, hospitality industries, travel agencies, aviation support businesses, and on airlines, trains, cruises, and tours. <input checked="" type="checkbox"/> Schedule Description: This course is an introduction to the employment opportunities, qualifications, salary, and benefits for the travel careers industry. Includes an overview of employment in airports, hospitality industries, travel agencies, aviation support businesses, and on airlines, trains, cruises, and tours.	FA07	To reflect changes in curriculum.
AIRTVL 102	<input checked="" type="checkbox"/> Course ID: AIRTVL 012 <input checked="" type="checkbox"/> Catalog Description: This course is an introduction to flight attendant and in-flight service team qualifications, employment opportunities, responsibilities, lifestyles, salaries and benefits. <input checked="" type="checkbox"/> Schedule Description: This course is an introduction to flight attendant and in-flight service team qualifications, employment opportunities, responsibilities, lifestyles, salaries and benefits.	FA07	To reflect changes in curriculum.
AIRTVL 103	<input checked="" type="checkbox"/> Course ID: AIRTVL 013 <input checked="" type="checkbox"/> Catalog Description: This course is an overview of the appearance, image, attitude, lifestyle decisions, goals, etiquette and wellness standards established by major United States airlines. Includes techniques to build confidence, professionalism, and business skills to secure successful employment in airline travel careers. <input checked="" type="checkbox"/> Schedule Description: This course is an overview of the appearance, image, attitude, lifestyle decisions, goals, etiquette and wellness standards established by major United States airlines. Includes techniques to build confidence, professionalism, and business skills to secure successful employment in airline travel careers.	FA07	To reflect changes in curriculum.
AIRTVL 104	<input checked="" type="checkbox"/> Course ID: AIRTVL 014 <input checked="" type="checkbox"/> Catalog Description: This course is a survey of terminology and operations unique to the airline travel industry, such as airline codes, airport and city codes, schedules, Official Airline Guide, federal agencies, airport operations, history, airline deregulation, mergers and acquisitions. <input checked="" type="checkbox"/> Schedule Description: This course is a survey of terminology and operations unique to the airline travel industry, such as airline codes, airport and city codes, schedules, federal agencies, and airport operations.	FA07	To reflect changes in curriculum.

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AIRTVL 105	<input checked="" type="checkbox"/> Course ID: AIRTV 015 <input checked="" type="checkbox"/> Course Title: Employment Writing Skills <input checked="" type="checkbox"/> Catalog Description: This course will help prepare students to write required employment documents such as resumes, applications, business letters, self-evaluations, a personal register of employment data, employment testing, and a document on employee/labor organizations and corporate affirmative action. <input checked="" type="checkbox"/> Schedule Description: This course will help prepare students to write required employment documents such as resumes, applications, business letters, self-evaluations, a personal register of employment data, employment testing, and a document on employee/labor organizations and corporate affirmative action.	FA07	To reflect changes in curriculum.
AIRTVL 106	<input checked="" type="checkbox"/> Course ID: AIRTVL 016 <input checked="" type="checkbox"/> Course Title: Employment Interviewing Skills <input checked="" type="checkbox"/> Catalog Description: This course prepares students for employment interviews through role playing and feedback. Student interviews are videotaped and critiqued, providing students with opportunities to see the image they project. <input checked="" type="checkbox"/> Schedule Description: This course prepares students for employment interviews through role playing and feedback.	FA07	To reflect changes in curriculum.
AIRTVL 107	<input checked="" type="checkbox"/> Course ID: AIRTVL 017 <input checked="" type="checkbox"/> Course Title: Introduction to Cultural Awareness <input checked="" type="checkbox"/> Catalog Description: This course provides an introduction to the history and belief systems of various world cultures with a focus on etiquette, gestures, body language, eating/drinking practices, business and social behavior. <input checked="" type="checkbox"/> Schedule Description: This course provides an introduction to the history and belief systems of various world cultures with a focus on etiquette, gestures, body language, eating/drinking practices, business and social behavior.	FA07	To reflect changes in curriculum.
AIRTVL 108	<input checked="" type="checkbox"/> Course ID: AIRTVL 018 <input checked="" type="checkbox"/> Course Title: Ground and In-Flight Service <input checked="" type="checkbox"/> Catalog Description: This course is designed to acquaint students with service techniques for ground and in-flight operations. Students will also learn identification and pronunciation of foods and beverages and a knowledge of airline equipment to provide quality food and beverage service while developing a personal serving style. <input checked="" type="checkbox"/> Schedule Description: This course is designed to acquaint students with service techniques for ground and in-flight operations. Students will also learn identification and pronunciation of foods and beverages and a knowledge of airline equipment to provide quality food and beverage service while developing a personal serving style.	FA07	To reflect changes in curriculum.
AIRTVL 109	<input checked="" type="checkbox"/> Course ID: AIRTVL 019 <input checked="" type="checkbox"/> Course Title: Ground and In-Flight Safety <input checked="" type="checkbox"/> Catalog Description: This course is designed to familiarize students with safety and security procedures for the travel industry which includes ground and in-flight equipment, passenger psychology, airport security, federal regulations and safety precautions while traveling. Students will also learn procedures to alert proper authorities when discussions of terrorism and hijacking are overheard. <input checked="" type="checkbox"/> Schedule Description: This course is designed to familiarize students with safety and security procedures for the travel industry.	FA07	To reflect changes in curriculum.
AIRTVL 110	<input checked="" type="checkbox"/> Course ID: AIRTVL 010 <input checked="" type="checkbox"/> Course Title: Computer Use in Travel Careers <input checked="" type="checkbox"/> Units: 1.5 <input checked="" type="checkbox"/> Lecture: 1.5 <input checked="" type="checkbox"/> Laboratory: None <input checked="" type="checkbox"/> Catalog Description: This course is an overview of the use of computer systems and the associated terms used in the travel industry including reservation and ticketing, applications, resumes, and home based employee scheduling and briefing. <input checked="" type="checkbox"/> Schedule Description: This course is an overview of the use of computer systems and the associated terms used in the travel industry including reservation and ticketing, applications, resumes, and home based employee scheduling and briefing.	FA07	To reflect changes in curriculum.
AIRTVL 120	<input checked="" type="checkbox"/> Course ID: AIRTVL 020 <input checked="" type="checkbox"/> Catalog Description: This course familiarizes students with the current destinations in and near the United States popular with American tourists, including local cruises and their corresponding itineraries. Areas to be covered are the state of Hawaii, the islands of the Caribbean, the islands of the Bahamas and Bermuda, the Mexican Riviera, and the Yucatan Peninsula. <input checked="" type="checkbox"/> Schedule Description: This course familiarizes students with the current destinations in and near the United States popular with American tourists, including local cruises and their corresponding itineraries.	FA07	To reflect changes in curriculum.
AIRTVL 112	<input checked="" type="checkbox"/> Course ID: AIRTVL 022 <input checked="" type="checkbox"/> Catalog Description: This course provides the student with information for maximizing the travel experience including regional accents and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity in the United States. <input checked="" type="checkbox"/> Schedule Description: This course provides the student with information for maximizing the travel experience including regional accents and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity in the United States.	FA07	To reflect changes in curriculum.

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AIRTVL 113	<input checked="" type="checkbox"/> Course ID: AIRTVL 023 <input checked="" type="checkbox"/> Catalog Description: This course will provide students with the resources to help travelers maximize their travel experience by increasing the students' knowledge of information about the culture, currency, language, shopping, and tourist destinations in Canada, Mexico, Caribbean, Central America, and South America. <input checked="" type="checkbox"/> Schedule Description: This course will provide students with the resources to help travelers maximize their travel experience by increasing the students' knowledge of information about the culture, currency, language, shopping, and tourist destinations in Canada, Mexico, Caribbean, Central America, and South America.	FA07	To reflect changes in curriculum.
AIRTVL 114	<input checked="" type="checkbox"/> Course ID: AIRTVL 024 <input checked="" type="checkbox"/> Catalog Description: This course provides the student with the resources to help travelers maximize the travel experience by increasing the students' knowledge of information about regional accents and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity for Australia, New Zealand, Japan, South Korea, Hong Kong, China, Taiwan, Thailand, Philippines, Tahiti, Samoa, Fiji, Singapore, Malaysia, Indonesia, and Indochina. <input checked="" type="checkbox"/> Schedule Description: This course provides the student with the resources to help travelers maximize the travel experience by increasing the students' knowledge of information about regional accents and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity for Australia, New Zealand, Japan, South Korea, Hong Kong, China, Taiwan, Thailand, Philippines, Tahiti, Samoa, Fiji, Singapore, Malaysia, Indonesia, and Indochina.	FA07	To reflect changes in curriculum.
AIRTVL 115	<input checked="" type="checkbox"/> Course ID: AIRTVL 025 <input checked="" type="checkbox"/> Catalog Description: This course provides the student with resources for maximizing the travel experience by increasing the students' knowledge of information about regional accents and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity for Greece, Spain, Portugal, Italy, Austria, Germany, Switzerland, and France. <input checked="" type="checkbox"/> Schedule Description: This course provides the student with resources for maximizing the travel experience by increasing the students' knowledge of information about regional accents and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity for Greece, Spain, Portugal, Italy, Austria, Germany, Switzerland, and France.	FA07	To reflect changes in curriculum.
AIRTVL 116	<input checked="" type="checkbox"/> Course ID: AIRTVL 026 <input checked="" type="checkbox"/> Catalog Description: This course provides the student with resources to help travelers maximize their travel experience by increasing the students' knowledge of information about customs, entry requirements, currency, languages and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity for Scandinavia, the British Isles, the Netherlands, Belgium and Luxembourg. <input checked="" type="checkbox"/> Schedule Description: This course provides the student with resources to help travelers maximize their travel experience by increasing the students' knowledge of information about customs, entry requirements, currency, languages and dialects, shopping, historical and recreational tourist destinations, and regional and cultural diversity for Scandinavia, the British Isles, the Netherlands, Belgium and Luxembourg.	FA07	To reflect changes in curriculum.
AIRTVL 117	<input checked="" type="checkbox"/> Course ID: AIRTVL 027 <input checked="" type="checkbox"/> Catalog Description: This course provides the student with resources to help travelers maximize their travel experience by increasing the students' knowledge of information about regional accents and dialects, shopping, historical and recreational tourist destinations, and regional culture and cultural diversity for Russia and Republics, Czech Republic, Hungary, Poland, Yugoslav Republics, Romania, and Albania. <input checked="" type="checkbox"/> Schedule Description: This course provides the student with resources to help travelers maximize their travel experience by increasing the students' knowledge of information about regional accents and dialects, shopping, historical and recreational tourist destinations, and regional culture and cultural diversity for Russia and Republics, Czech Republic, Hungary, Poland, Yugoslav Republics, Romania, and Albania.	FA07	To reflect changes in curriculum.
AIRTVL 118	<input checked="" type="checkbox"/> Course ID: AIRTVL 028 <input checked="" type="checkbox"/> Catalog Description: This course provides students with resources to help travelers maximize the travel experience by increasing the students' knowledge of information about customs, entry requirements, currency, languages and dialects, shopping, historical and recreational tourist destinations, and regional culture and cultural diversity for selected regions of Africa. <input checked="" type="checkbox"/> Schedule Description: This course provides students with resources to help travelers maximize the travel experience by increasing the students' knowledge of information about customs, entry requirements, currency, languages and dialects, shopping, historical and recreational tourist destinations, and regional culture and cultural diversity for selected regions of Africa.	FA07	To reflect changes in curriculum.
AUTO 056	<input checked="" type="checkbox"/> Catalog Description: This course is an in-depth study of the design and operation of contemporary, domestic and import air conditioning/heating systems. Air conditioning and heating related parts will be disassembled, inspected and a determination made of the serviceability of existing parts. Emphasis is placed on problem diagnosis of and repair procedures for these systems. This course also offers an introduction to Automatic A/C and Comfort Control Systems, and recovery and recycling of refrigerants. <input checked="" type="checkbox"/> Schedule Description: This course is an in-depth study of the design and operation of domestic and import air conditioning and heating systems.	FA07	To reflect changes in curriculum.

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AUTO 064	<input checked="" type="checkbox"/> Units: 5 <input checked="" type="checkbox"/> Lecture: 4 <input checked="" type="checkbox"/> Catalog Description: This course covers the theory of electricity, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of major electrical components of automobiles and light trucks. Major areas of study include batteries, starting and charging systems. Emphasis is placed on problem diagnosis of and repair procedures for these systems. <input checked="" type="checkbox"/> Schedule Description: This course covers the theory of electricity, use of meters, test equipment, wiring diagrams, diagnosis and repair/replacement of batteries, starting, and charging systems of automobiles and light trucks.	FA07	To reflect changes in curriculum.
AUTO 065	<input checked="" type="checkbox"/> Units: 5 <input checked="" type="checkbox"/> Lecture: 4 <input checked="" type="checkbox"/> Catalog Description: This course provides students with the knowledge necessary to diagnose and repair automotive electrical malfunctions. Topics include lighting systems, electrical instruments and accessories, electrical door components, air bags, wiring diagrams, and alarm systems. Emphasis is placed on problem diagnosis of and repair procedures for these systems. <input checked="" type="checkbox"/> Schedule Description: This course provides students with the knowledge necessary to diagnose and repair automotive electrical malfunctions. Topics include lighting systems, electrical instruments and accessories, electrical door components, air bags, wiring diagrams, and alarm systems.	FA07	To reflect changes in curriculum.
AUTO 066	<input checked="" type="checkbox"/> Catalog Description: Automotive Service Excellence (ASE) alternative course is designed for students wishing to meet the Bureau of Automotive Repair (BAR) requirements to become a Smog Technician in lieu of ASE certificates or as a preparation for ASE testing. Subject areas include reviewing of A-6 Electrical and Electronics, A-8 Engine Performance, and L-1 Advanced Engine Performance. Students wishing alternative certificate will be asked to pay for testing services for each test; certificate expires at the end of five years. <input checked="" type="checkbox"/> Schedule Description: Automotive Service Excellence (ASE) alternative course is designed for students wishing to meet the Bureau of Automotive Repair (BAR) requirements to become a Smog Technician in lieu of ASE certificates or as a preparation for ASE testing.	FA07	To reflect changes in curriculum.
AUTO 067	<input checked="" type="checkbox"/> Course Title: Basic and Advanced Clean Air Car Course <input checked="" type="checkbox"/> Catalog Description: This Bureau of Automotive Repair (BAR) course provides students with the knowledge necessary to perform a smog inspection in a basic and enhanced inspection area according to BAR guidelines. Information covered will include preconditioning procedures, proper use of smog test equipment, current laws and regulations, consumer waiver and extension procedures, generic On-Board Diagnostic (OBD) II information. This class satisfies BAR requirements for all current updates, including 2007. Students will receive three state certificates, 68 hours, 28 hours and 2007 Update. <input checked="" type="checkbox"/> Schedule Description: This Bureau of Automotive Repair (BAR) course provides students with the knowledge necessary to perform a smog inspection in a basic and enhanced inspection area according to BAR guidelines. Students will receive three state certificates, 68 hours, 28 hours and 2007 Update.	FA07	To reflect changes in curriculum.
AUTO 068	<input checked="" type="checkbox"/> Units: 5 <input checked="" type="checkbox"/> Lecture: 4 <input checked="" type="checkbox"/> Catalog Description: This course provides an in-depth study of the design and operation of domestic and import ignition systems. Major areas of study include point type, electronic, and computer control ignition systems. Emphasis is placed on the correct diagnosis of and repair procedures for these systems. The use of current diagnostic test equipment used in today's industry and strategies necessary to determine needed repairs are covered. <input checked="" type="checkbox"/> Schedule Description: This course provides an in-depth study of the design and operation of domestic and import ignition systems. Major areas of study include point type, electronic, and computer control ignition systems.	FA07	To reflect changes in curriculum.
AUTO 069	<input checked="" type="checkbox"/> Units: 5 <input checked="" type="checkbox"/> Lecture: 4 <input checked="" type="checkbox"/> Catalog Description: This course is an in-depth study of the design and operation of fuel management systems including domestic and import feedback carburetor, fuel injection and computer control fuel management systems. This course covers the diagnosis and repair/replacement of major components: all sensors, injectors, fuel pumps, and interpretation of computer related malfunctions. The use of current diagnostic test equipment used in today's industry and strategies necessary to determine needed repairs are covered. <input checked="" type="checkbox"/> Schedule Description: This course is an in-depth study of the design and operation of fuel management systems including domestic and import feedback carburetor, fuel injection and computer control fuel management systems.	FA07	To reflect changes in curriculum.

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CD 101	<input checked="" type="checkbox"/> Catalog Description: Course covers general concepts, goals and strategies of parenting through the life span in varying life circumstances and diverse family types. Emphasis is placed on establishing and maintaining close emotional relationships through bonding, attachment, and effective communication techniques with children at all developmental stages. The importance of effective guidance skills, shaping and modifying children's behavior is also explored. <input checked="" type="checkbox"/> Schedule Description: Course covers general concepts, goals and strategies of parenting through the life span in varying life circumstances and diverse family types. Emphasis is placed on establishing and maintaining close emotional relationships through bonding, attachment, guidance skills and effective communication techniques with children at all developmental stages.	FA07	To reflect changes in curriculum
CD 105H	<input checked="" type="checkbox"/> Catalog Description: Study of the growth and development of children from the prenatal period through adolescence with an emphasis on the physical, cognitive, social and emotional needs of children. Practical experience observing and recording children's behavior is included. Enrollment is limited to students eligible for the Honors Program. <input checked="" type="checkbox"/> Schedule Description: Study of the growth and development of children from the prenatal period through adolescence with an emphasis on the physical, cognitive, social and emotional needs of children. Enrollment is limited to students eligible for the Honors Program.	FA07	To reflect changes in curriculum
CD 111	<input checked="" type="checkbox"/> Units: 3 <input checked="" type="checkbox"/> Lecture: 2 <input checked="" type="checkbox"/> Prerequisite: CD 105 or CD 105H <input checked="" type="checkbox"/> Corequisite: CD 105 or CD 105H <input checked="" type="checkbox"/> Catalog Description: Introduction to observational methodologies and techniques used in the study of childhood behavior including observation, recording, analysis and interpretation as they relate to developmental principles, theories and current research. <input checked="" type="checkbox"/> Schedule Description: Introduction to observational methodologies and techniques used in the study of childhood behavior including observation, recording, analysis and interpretation.	FA07	To reflect changes in curriculum
CD 116 X 4	<input checked="" type="checkbox"/> Course ID: CD 116 <input checked="" type="checkbox"/> Lecture: 1 <input checked="" type="checkbox"/> Laboratory: 3 <input checked="" type="checkbox"/> Repeatability: 0 <input checked="" type="checkbox"/> Catalog Description: Course includes certification of pediatric CPR, pediatric first aid, prevention of the spread of infectious disease, immunizations, child safety and injury prevention. (Meets community and state licensing recommendations for child care workers.) <input checked="" type="checkbox"/> Schedule Description: Course includes certification of pediatric CPR, pediatric first aid, prevention of the spread of infectious disease, immunizations, child safety and injury prevention. (Meets community and state licensing recommendations for child care workers.)	FA07	To reflect changes in curriculum
CD 134	<input checked="" type="checkbox"/> Prerequisite: CD 105 or CD 105H <input checked="" type="checkbox"/> Catalog Description: This course emphasizes the process of language acquisition in children and techniques and experiences which promote language development and listening skills. It includes the examination of children's literature; teaching strategies for reading picture books to children; presenting poetry; flannel board activities; puppetry and storytelling in the classroom for children ages two through eight. <input checked="" type="checkbox"/> Schedule Description: This course emphasizes the process of language acquisition in children; the examination of children's literature; teaching strategies and experiences which promote language development and listening skills.	FA07	To reflect changes in curriculum
CD 136	<input checked="" type="checkbox"/> Catalog Description: This course focuses on establishing an environment for young children that cultivates and nourishes creativity and their aesthetic sense. It includes the principles of creative development; instructional strategies; materials, tools and equipment in an art program; and developmentally appropriate activities and experiences which underscore the emotional, social, physical, and cognitive needs of children from two through eight years of age. <input checked="" type="checkbox"/> Schedule Description: This course focuses on establishing an environment for young children that cultivates and nourishes their creativity and aesthetic sense. Course includes art activities and experiences.	FA07	To reflect changes in curriculum
CD 295	<input checked="" type="checkbox"/> Course ID: CD 295 A-Z <input checked="" type="checkbox"/> Units: 0.5-3 <input checked="" type="checkbox"/> Lecture: 8-54 <input checked="" type="checkbox"/> Laboratory: 27-162 <input checked="" type="checkbox"/> Catalog Description: Special Topics in Child Development cover selected subject matters that are current and relevant in the field of child development; possible topics include Emergent Curriculum, Ethics, Early Literacy, Children and Conflict, Nutrition, Childhood Obesity, Early Intervention, Dramatic Play, Child Abuse, Brain Development and Importance of Play. <input checked="" type="checkbox"/> Schedule Description: Special Topics Child Development cover selected subject matters that are current and relevant in the field of child development.	FA07	To reflect changes in curriculum
DIESEL 021	<input checked="" type="checkbox"/> Schedule Description: Theory and practical shop work in the repair, operation, and maintenance of heavy duty diesel engines and fuel injection systems.	FA07	To reflect changes in curriculum

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DIESEL 022	<input checked="" type="checkbox"/> Catalog Description: Theory and practical shop work in the construction, operation, and repair of heavy-duty truck brake systems and components. Includes principles of hydraulic and pneumatic brake systems, anti-lock, and computer controlled braking systems used in today's modern heavy-duty diesel trucks and busses. <input checked="" type="checkbox"/> Schedule Description: Theory and practical shop work in the repair, operation, and maintenance of various hydraulic and pneumatic heavy-duty truck and bus brake systems.	FA07	To reflect changes in curriculum
DIESEL 023	<input checked="" type="checkbox"/> Schedule Description: Theory and practical shop work in the repair, operation and maintenance of various hydraulic and pneumatic heavy-duty truck suspension and steering systems.	FA07	To reflect changes in curriculum.
DIESEL 028	<input checked="" type="checkbox"/> Catalog Description: Theory and practical shop work in maintenance and preventive maintenance service of heavy-duty truck and bus systems. Fundamentals of truck components and systems are explained as students perform routine tasks. Course is designed to provide students the needed skills and knowledge to perform entry level labor tasks in the heavy-duty truck service industry. <input checked="" type="checkbox"/> Schedule Description: Theory and practical shop work in maintenance and preventive maintenance service of heavy-duty truck and bus systems. Course is designed to provide students the needed skills and knowledge to perform entry level labor tasks in the heavy-duty truck service industry.	FA07	To reflect changes in curriculum.
DIESEL 030	<input checked="" type="checkbox"/> Catalog Description: Advanced level theory and practical shop work in maintenance, air conditioning, ABS, computers, and operations of the heavy-duty truck and bus systems. Course is designed to provide students the needed skills and knowledge to perform advanced level labor tasks in the heavy-duty truck and bus service industry. <input checked="" type="checkbox"/> Schedule Description: Advanced level theory and practical shop work in heavy-duty truck and bus maintenance. Course is designed to provide students the needed skills to perform advanced level labor tasks in the heavy-duty truck and bus service industry.	FA07	To reflect changes in curriculum.
DIESEL 035	<input checked="" type="checkbox"/> Catalog Description: This course provides theory and hands on experience with heavy and medium-duty automatic transmission operation, construction, service and overhaul procedures. The purpose of the class is to prepare the students to successfully troubleshoot and repair heavy and medium-duty transmissions. <input checked="" type="checkbox"/> Schedule Description: This course provides theory and hands on experience with heavy and medium-duty transmission operation, construction, service and overhaul procedures.	FA07	To reflect changes in curriculum.
WELD 060	<input checked="" type="checkbox"/> Departmental Advisory: WELD 045 <input checked="" type="checkbox"/> Catalog Description: This course is designed to provide the welding student with the training needed to read blueprints and to make the welding connections to steel beams and columns. Topics include interpreting a structural shop blueprint; understanding the abbreviations, symbols and terms used on a shop drawing; specifying and coding of various grades of steel; use of specialized tools and templates. <input checked="" type="checkbox"/> Schedule Description: This course is designed to provide the welding student with the training needed to read blueprints and to make the welding connections to steel beams and columns.	FA07	To reflect changes in curriculum.
WELD 061	<input checked="" type="checkbox"/> Departmental Advisory: WELD 060 or WELD 045 <input checked="" type="checkbox"/> Catalog Description: Designed to provide the intermediate to advanced welding student with the skills needed by craftsmen in the fabrication industry. Topics include properties of structural steel; fitting up; railing and balusters; steel stair buildings and stringers.	FA07	To reflect changes in curriculum.
WELD 062	<input checked="" type="checkbox"/> Catalog Description: This course covers oxy-acetylene welding and cutting, brazing and arc welding in all positions. It includes welding theory, electrode identification, metals, blue-print reading, technical math, and a strong emphasis on safety. <input checked="" type="checkbox"/> Schedule Description: This course covers oxy-acetylene welding and cutting, brazing and arc welding in all positions. It includes welding theory, electrode identification, metals, blue-print reading, technical math, and a strong emphasis on safety.	FA07	To reflect changes in curriculum.
WELD 063	<input checked="" type="checkbox"/> Catalog Description: This course covers arc welding including Metal Inert Gas (MIG), flux core welding in all positions, and Tungsten Inert Gas (TIG) welding on various types of metals. It includes welding theory, electrode identification, weld symbols, blue-print reading, technical math, and a special emphasis on safety. <input checked="" type="checkbox"/> Schedule Description: This course covers arc welding including Metal Inert Gas (MIG), flux core welding in all positions, and Tungsten Inert Gas (TIG) welding on various types of metals. It includes welding theory, electrode identification, weld symbols, blue-print reading, and technical math.	FA07	To reflect changes in curriculum.
WELD 064X4	<input checked="" type="checkbox"/> Catalog Description: This course is a consolidation of all the welding processes including oxy-acetylene welding on ferrous and non-ferrous metals, cutting and brazing, arc welding in all positions, Metal Inert Gas (MIG) and Tungsten Inert Gas (TIG) welding, welding theory, technical math, blueprint reading, metals, and electrode identification with special emphasis on safety. <input checked="" type="checkbox"/> Schedule Description: This course covers all the welding processes including oxy-acetylene welding, cutting and brazing, arc welding in all positions, MIG and TIG welding, welding theory, technical math, blueprint reading, metals, and electrode identification.	FA07	To reflect changes in curriculum.

WELD 065A	<input checked="" type="checkbox"/> Course ID: WELD 065B <input checked="" type="checkbox"/> Departmental Advisory: WELD 045 <input checked="" type="checkbox"/> Catalog Description: This course is designed to prepare students for the certified welding inspector examination offered by the American Welding Society (AWS). Focus on welding process, welding procedures, code specifications and standards covering topics in materials and their limitations of weld testing, as well as record keeping and report preparations. FIVE YEARS OR MORE EXPERIENCE IN WELDING OR RELATED CONSTRUCTION FIELD IS REQUIRED PRIOR TO TESTING FOR THE INSPECTION LICENSE. <input checked="" type="checkbox"/> Schedule Description: This course is designed to prepare students for the certified welding inspector examination offered by the American Welding Society (AWS). FIVE YEARS OR MORE EXPERIENCE IN WELDING OR RELATED CONSTRUCTION FIELD IS REQUIRED PRIOR TO TESTING FOR THE INSPECTION LICENSE.	FA07	To reflect changes in curriculum.
WELD 066A	<input checked="" type="checkbox"/> Course ID: WELD 066B <input checked="" type="checkbox"/> Departmental Advisory: WELD 045 <input checked="" type="checkbox"/> Catalog Description: This course is designed to prepare students for the written Structural Steel examination offered by the Department of Building and Safety in the City of Los Angeles with a focus on the codes used in the structural steel industry. <input checked="" type="checkbox"/> Schedule Description: This course is designed to prepare students for the written Structural Steel examination offered by the Department of Building and Safety in the City of Los Angeles with a focus on the codes used in the structural steel industry.	FA07	To reflect changes in curriculum.
WELD 067A	<input checked="" type="checkbox"/> Course ID: WELD 067B <input checked="" type="checkbox"/> Departmental Advisory: WELD 045 or WELD 060 or WELD 061 <input checked="" type="checkbox"/> Catalog Description: This course is designed to prepare students for the International Conference of Building Officials (ICBO) Inspector Certifications examinations and to provide training for employment in the quality control or construction inspection industry. Topics include a review of the technical aspects on inspection and quality control in the area of structural steel and welding preparation, materials applications, plan reading, and related codes and report writing. <input checked="" type="checkbox"/> Schedule Description: This course is designed to prepare students for the Structural Steel Special Inspection examination offered by the International Conference of Building Officials (ICBO).	FA07	To reflect changes in curriculum.
WELD 070X4	<input checked="" type="checkbox"/> Departmental Advisory: WELD 023 or WELD 045 <input checked="" type="checkbox"/> Catalog Description: This course is a practical application of welding techniques used in the Gas Tungsten Arc Welding (GTAW) process. Welding safety, equipment and joint construction on aluminum and other ferrous metals are stressed. Focus is on the welding procedures for butt, corner tee and lap joints to include voltage, amperage, electrodes and shielding gas requirements. <input checked="" type="checkbox"/> Schedule Description: This is a practical application of welding techniques used in the Gas Tungsten Arc Welding (GTAW) process with stress on welding safety. This course will focus on welding procedures for butt, corner tee and lap joints and will include voltage, amperage, electrodes and shielding gas requirements.	FA07	To reflect changes in curriculum.
WELD 077X4	<input checked="" type="checkbox"/> Prerequisite: None <input checked="" type="checkbox"/> Departmental Advisory: WELD 045 <input checked="" type="checkbox"/> Catalog Description: This course covers techniques and methods of continuous wire welding with and without gas shields in all positions and on various thicknesses of metals. <input checked="" type="checkbox"/> Schedule Description: This course covers techniques and methods of continuous wire welding with and without gas shields in all positions and on various thicknesses of metals.	FA07	To reflect changes in curriculum.
WELD 123	<input checked="" type="checkbox"/> Course ID: WELD 023 <input checked="" type="checkbox"/> Laboratory: 6 <input checked="" type="checkbox"/> Catalog Description: Intensive training in oxy-acetylene welding, which includes plate and sheet metal welding, brazing and soldering, fundamentals of welding equipment and related subjects with a strong emphasis on safety. <input checked="" type="checkbox"/> Schedule Description: This course covers an intensive training in oxy-acetylene welding, which includes plate and sheet metal welding, brazing and soldering and the fundamentals of welding equipment.	FA07	To reflect changes in curriculum.
WELD 127	<input checked="" type="checkbox"/> Course ID: WELD 027 <input checked="" type="checkbox"/> Laboratory: 3 <input checked="" type="checkbox"/> Catalog Description: This course provides instruction in destructive testing techniques, using equipment such as tensile testing machines, hardness testers and impact testers. Topic includes the molecular structure of metal and how it varies under testing. <input checked="" type="checkbox"/> Schedule Description: This course provides instruction in destructive testing techniques, using equipment such as tensile testing machines, hardness testers and impact testers.	FA07	To reflect changes in curriculum.
WELD 128	<input checked="" type="checkbox"/> Course ID: WELD 028 <input checked="" type="checkbox"/> Laboratory: 3 <input checked="" type="checkbox"/> Departmental Advisory: WELD 027 <input checked="" type="checkbox"/> Catalog Description: This course provides instruction in non-destructive testing techniques such as dye, penetrants, eddy current, magnetic particles, and ultra-sonic tests. <input checked="" type="checkbox"/> Schedule Description: This course provides instruction in non-destructive testing techniques such as dye, penetrants, eddy current, magnetic particles, and ultra-sonic tests.	FA07	To reflect changes in curriculum.
WELD 145	<input checked="" type="checkbox"/> Course ID: WELD 045 <input checked="" type="checkbox"/> Laboratory: 6	FA07	To reflect changes in curriculum.

Curriculum Meetings: 11-20-06; 11-27-06; 12-04-06; 12-07-06; 12-11-06

Conjoint Meeting: 12-18-06

Board of Trustee Meeting: 01-18-07

WELD 146	<input checked="" type="checkbox"/> Course ID: WELD 046 <input checked="" type="checkbox"/> Laboratory: 6 <input checked="" type="checkbox"/> Prerequisite: WELD 045 <input checked="" type="checkbox"/> Catalog Description: Continuation of training and development skills for arc welding on plate, pipe, and sheet metal. Continuing theory of welding, electrode usage, weld symbols, and American Welding Society code information. <input checked="" type="checkbox"/> Schedule Description: Continuation of training and development skills for arc welding on plate, pipe, and sheet metal. Continuing theory of welding, electrode usage, weld symbols, and American Welding Society code information.	FA07	To reflect changes in curriculum.
WELD 147	<input checked="" type="checkbox"/> Course ID: WELD 047 <input checked="" type="checkbox"/> Laboratory: 6 <input checked="" type="checkbox"/> Prerequisite: WELD 045	FA07	To reflect changes in curriculum.
WST 144	<input checked="" type="checkbox"/> Departmental Advisory: WST 145, or hold AWWA Backflow Prevention Certificate or equivalent certificate issued by a government agency <input checked="" type="checkbox"/> Catalog Description: A study of the administrative and technical procedures required to establish a cross-connection control program, including a review of applicable local, state and federal regulations. The course includes the identification and study of backflow devices required to mitigate hazards of actual or potential connection between potable water supply and any source of contamination. It also prepares students to become certified as cross-connection control program specialists. <input checked="" type="checkbox"/> Schedule Description: A study of the administrative and technical procedure required to establish a cross connection control program. The course prepares students to become certified as cross-connection control program specialists.	FA07	To reflect changes in curriculum.
WST 145	<input checked="" type="checkbox"/> Prerequisite: None <input checked="" type="checkbox"/> Catalog Description: The course provide instruction in theory, testing, and maintenance of backflow prevention assemblies. It prepares journeyman plumbers and utility operators to take American Water Work Association backflow prevention certification test. <input checked="" type="checkbox"/> Schedule Description: The course provide instruction in theory, testing, and maintenance of backflow prevention assemblies. It prepares journeyman plumbers and utility operators to take American Water Work Association backflow prevention certification test.	FA07	To reflect changes in curriculum.

DELETE COURSES

CD 112 CD 137 CD 143 CD 144 CD 145 CD 146 CD 296 CD 297 CD 299 CIT 210 DIESEL 025 X 4	DIESEL 027 X 3 HIST 124 HIST 126 HIST 135 HIST 145 HIST 153 HIST 160 HIST 161 HIST 180 HIST 190-191
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Effective: FA07
Rationale: To reflect changes in Curriculum.

DISTRIBUTED EDUCATION			
COURSE ID		EFF DATE	RATIONALE
CIT 010	100% ONLINE	FA07	To offer the course in a distributed education format.
CIT 114	100% ONLINE	FA07	To offer the course in a distributed education format.

MODIFY DEGREE

DEGREE		EFF DATE	RATIONALE																																																										
AIR TRAVEL CAREERS - FLIGHT	<p>AIR TRAVEL CAREERS-FLIGHT A.S. DEGREE MAJOR</p> <p>To graduate with a specialization in the Air Travel Careers - Flight major, students must complete all the requirements for the Air Travel Careers - Flight Certificate with a grade of C or better plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>AIRTVL 010 Computer Use in Travel Careers</td> <td>1</td> </tr> <tr> <td>AIRTVL 011 Survey of Travel Careers</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 012 Flight Attendant Survey</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 013 Image, Attitude and Appearance</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 014 Terminology, Codes and Operations</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 015 Employment Writing Skills</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 016 Employment Interviewing Skills</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 017 Introduction to Cultural Awareness</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 018 Ground and In-Flight Service</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 019 Ground and In-Flight Safety</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 198 Air Travel Careers Work Experience</td> <td>1 - 4</td> </tr> <tr> <td>PE 231 First Aid and CPR</td> <td>3</td> </tr> </table> <p>Three (3) courses from the following list of Travel Geography are required for certification:</p> <table border="0"> <tr> <td></td> <td>UNITS</td> </tr> <tr> <td>AIRTVL 020 Travel Geography - Resort Destinations</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 022 Travel Geography - United States</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 023 Travel Geography - The Americas</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 024 Travel Geography - Pacific Rim</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 025 Travel Geography - Southern Europe</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 026 Travel Geography - Northern Europe</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 027 Travel Geography - Eastern Europe</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 028 Travel Geography - Africa</td> <td>(1.5)</td> </tr> </table> <table border="0"> <tr> <td>RECOMMENDED COURSES BUT NOT REQUIRED</td> <td>UNITS</td> </tr> <tr> <td>AERO 121 Aviation Fundamentals</td> <td>(3)</td> </tr> <tr> <td>AERO 134 Civil Aviation Management & Laws</td> <td>(3)</td> </tr> <tr> <td>BUSAD 100 Introduction to Business</td> <td>(3)</td> </tr> <tr> <td>CIT 010 Beginning Keyboarding</td> <td>(3)</td> </tr> <tr> <td>ENGL 101 Freshman Composition</td> <td>(4)</td> </tr> <tr> <td>SPEECH 100 Elements of Public Speaking</td> <td>(3)</td> </tr> </table> <p>TOTAL UNITS 23 - 26</p>	REQUIRED COURSES	UNITS	AIRTVL 010 Computer Use in Travel Careers	1	AIRTVL 011 Survey of Travel Careers	1.5	AIRTVL 012 Flight Attendant Survey	1.5	AIRTVL 013 Image, Attitude and Appearance	1.5	AIRTVL 014 Terminology, Codes and Operations	1.5	AIRTVL 015 Employment Writing Skills	1.5	AIRTVL 016 Employment Interviewing Skills	1.5	AIRTVL 017 Introduction to Cultural Awareness	1.5	AIRTVL 018 Ground and In-Flight Service	1.5	AIRTVL 019 Ground and In-Flight Safety	1.5	AIRTVL 198 Air Travel Careers Work Experience	1 - 4	PE 231 First Aid and CPR	3		UNITS	AIRTVL 020 Travel Geography - Resort Destinations	(1.5)	AIRTVL 022 Travel Geography - United States	(1.5)	AIRTVL 023 Travel Geography - The Americas	(1.5)	AIRTVL 024 Travel Geography - Pacific Rim	(1.5)	AIRTVL 025 Travel Geography - Southern Europe	(1.5)	AIRTVL 026 Travel Geography - Northern Europe	(1.5)	AIRTVL 027 Travel Geography - Eastern Europe	(1.5)	AIRTVL 028 Travel Geography - Africa	(1.5)	RECOMMENDED COURSES BUT NOT REQUIRED	UNITS	AERO 121 Aviation Fundamentals	(3)	AERO 134 Civil Aviation Management & Laws	(3)	BUSAD 100 Introduction to Business	(3)	CIT 010 Beginning Keyboarding	(3)	ENGL 101 Freshman Composition	(4)	SPEECH 100 Elements of Public Speaking	(3)	FA07	To reflect the new course numbers from 100 level to 0 level per Articulation Officer's recommendation.
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INSPECTION TECHNOLOGY	<p>INSPECTION TECHNOLOGY A.S. DEGREE MAJOR</p> <p>To graduate with a specialization in Inspection Technology, students must complete the following required courses for the certificate plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>INSPEC 010A Fundamentals of Construction Inspection I</td> <td>3</td> </tr> <tr> <td>INSPEC 011A Fundamentals of Construction Inspection II</td> <td>3</td> </tr> <tr> <td>INSPEC 012A Fundamentals of Construction Inspection III</td> <td>3</td> </tr> <tr> <td>INSPEC 013C Advanced Construction Inspection: Uniform Building Code</td> <td>3</td> </tr> <tr> <td>INSPEC 014C Advanced Construction Inspection: National Electrical Code</td> <td>3</td> </tr> <tr> <td>INSPEC 015C Advanced Construction Inspection: Uniform Plumbing Code</td> <td>3</td> </tr> <tr> <td>INSPEC 016C Advanced Construction Inspection: Uniform Mechanical Code</td> <td>3</td> </tr> <tr> <td>INSPEC 017C California State Energy Regulations for Residential Buildings</td> <td>3</td> </tr> <tr> <td>INSPEC 018C California State Energy Regulations for Non-residential Buildings</td> <td>3</td> </tr> <tr> <td>INSPEC 024C Community Relations for Civil Service Employees</td> <td>3</td> </tr> <tr> <td>INSPEC 025C Building Inspection for Civil Service Employees: Communication and Enforcement</td> <td>3</td> </tr> <tr> <td>INSPEC0 026C Non-Structural Plan Review</td> <td>3</td> </tr> <tr> <td>TOTAL UNITS</td> <td>36</td> </tr> </table>	REQUIRED COURSES	UNITS	INSPEC 010A Fundamentals of Construction Inspection I	3	INSPEC 011A Fundamentals of Construction Inspection II	3	INSPEC 012A Fundamentals of Construction Inspection III	3	INSPEC 013C Advanced Construction Inspection: Uniform Building Code	3	INSPEC 014C Advanced Construction Inspection: National Electrical Code	3	INSPEC 015C Advanced Construction Inspection: Uniform Plumbing Code	3	INSPEC 016C Advanced Construction Inspection: Uniform Mechanical Code	3	INSPEC 017C California State Energy Regulations for Residential Buildings	3	INSPEC 018C California State Energy Regulations for Non-residential Buildings	3	INSPEC 024C Community Relations for Civil Service Employees	3	INSPEC 025C Building Inspection for Civil Service Employees: Communication and Enforcement	3	INSPEC0 026C Non-Structural Plan Review	3	TOTAL UNITS	36	FA07	To reflect changes in curriculum.								
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WELDING - CONSOLIDATED	<p>CONSOLIDATED WELDING A.S. DEGREE MAJOR</p> <p>To graduate with a specialization in Welding Technology, students must complete all requirements for Consolidated Welding Certificate plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).</p> <p>Students must complete a minimum of 26 units in any combination of the REQUIRED COURSES and one of the RESTRICTED ELECTIVE COURSES.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 062 Consolidated Welding</td> <td>2 - 13</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 063 Consolidated Welding</td> <td>2 - 13</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 064X4 Consolidated Welding</td> <td>2 - 13</td> </tr> <tr> <td>RESTRICTED ELECTIVE COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 027 Strength of Materials Testing: Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 028 Strength of Materials Testing: Non-Destructive</td> <td>3</td> </tr> <tr> <td>TOTAL UNITS</td> <td>29</td> </tr> </table>	REQUIRED COURSES	UNITS	WELD 062 Consolidated Welding	2 - 13	or		WELD 063 Consolidated Welding	2 - 13	or		WELD 064X4 Consolidated Welding	2 - 13	RESTRICTED ELECTIVE COURSES	UNITS	WELD 027 Strength of Materials Testing: Destructive	3	or		WELD 028 Strength of Materials Testing: Non-Destructive	3	TOTAL UNITS	29	FA07	To reflect changes in curriculum.														
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WELDING - GENERAL	<p>GENERAL WELDING A.S. DEGREE MAJOR</p> <p>To graduate with a specialization in Welding Technology, students must complete all requirements for GENERAL WELDING CERTIFICATE plus the general breadth requirements for the Associate of Science Degree (minimum total = 60 units).</p> <p>Students must complete ALL of the REQUIRED COURSES plus ONE of the RESTRICTED ELECTIVE COURSES.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>TECALC 950 Shop Calculations</td> <td>3</td> </tr> <tr> <td>or higher level math course</td> <td>3 - 4</td> </tr> <tr> <td>WELD 023 Oxy-Acetylene Welding</td> <td>3</td> </tr> <tr> <td>WELD 027 Strength of Materials Testing: Destructive</td> <td>3</td> </tr> <tr> <td>WELD 045 Shielded Metal Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 046 Intermediate Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 060 Layout Fitter I</td> <td>3</td> </tr> <tr> <td>WELD 066B Los Angeles City Welding Certification</td> <td>3</td> </tr> <tr> <td>WELD 070X4 Tig Welding</td> <td>1</td> </tr> <tr> <td>WELD 077X4 Continuous Wire Welding</td> <td>1</td> </tr> <tr> <td>RESTRICTED ELECTIVE COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 028 Strength of Materials Testing: Non-Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 061 Layout Fitter II</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 065B Welding Inspection Visual</td> <td>4</td> </tr> <tr> <td>TOTAL UNITS</td> <td>26 - 28</td> </tr> </table>	REQUIRED COURSES	UNITS	TECALC 950 Shop Calculations	3	or higher level math course	3 - 4	WELD 023 Oxy-Acetylene Welding	3	WELD 027 Strength of Materials Testing: Destructive	3	WELD 045 Shielded Metal Arc Welding	3	WELD 046 Intermediate Arc Welding	3	WELD 060 Layout Fitter I	3	WELD 066B Los Angeles City Welding Certification	3	WELD 070X4 Tig Welding	1	WELD 077X4 Continuous Wire Welding	1	RESTRICTED ELECTIVE COURSES	UNITS	WELD 028 Strength of Materials Testing: Non-Destructive	3	or		WELD 061 Layout Fitter II	3	or		WELD 065B Welding Inspection Visual	4	TOTAL UNITS	26 - 28	FA07	To reflect changes in curriculum.
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CERTIFICATE		EFF DATE	RATIONALE												
BASIC MACHINE OPERATOR	<p>BASIC MACHINE OPERATOR CERTIFICATE</p> <p>This certificate is designed to prepare students with basic entry-level machine operator skills, safety knowledge, theory, and quality control skills in manufacturing processes. Students obtaining this certificate will qualify for the first level certification in National Industry Metal Skills (NIMS).</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>MACH 021B Machine Shop I</td> <td>4</td> </tr> <tr> <td>MACH 075X2 Introduction to Computer Aided Drafting Technologies</td> <td>3</td> </tr> <tr> <td>MACH 090B Engineering Blueprint Reading, Geometric Dimensioning, and Tolerancing 3</td> <td>3</td> </tr> <tr> <td>MACH 120B Machine Shop Theory</td> <td>2</td> </tr> <tr> <td>TOTAL UNITS</td> <td>12</td> </tr> </table>	REQUIRED COURSES	UNITS	MACH 021B Machine Shop I	4	MACH 075X2 Introduction to Computer Aided Drafting Technologies	3	MACH 090B Engineering Blueprint Reading, Geometric Dimensioning, and Tolerancing 3	3	MACH 120B Machine Shop Theory	2	TOTAL UNITS	12	FA07	The Basic Machine Operator Certificate is an entry-level certificate, which will provide students with one National Industry Metal Skills (NIMS) Level-1 certification in one of the seven certification skill areas. The existing certificates do not provide any federal certification certificates for students completing basic skills related to the NIMS I Institute of Metal Skills.
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Curriculum Meetings: 11-20-06; 11-27-06; 12-04-06; 12-07-06; 12-11-06

Conjoint Meeting: 12-18-06

Board of Trustee Meeting: 01-18-07

GENERAL ELECTRICIAN	<p>GENERAL ELECTRICIAN CERTIFICATE</p> <p>This certificate will allow an "Electrician Trainee" to sit for the California State General Electrician Certification examination. These courses also satisfy the continuing education requirement every three years for certified electricians. Students working for certificates must have a basic knowledge for arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>ELEC 216B Introduction to Industrial Electricity</td> <td>4</td> </tr> <tr> <td>ELEC 217B Industrial Electricity</td> <td>4</td> </tr> <tr> <td>ELEC 218B Controlling Industrial Electricity</td> <td>4</td> </tr> <tr> <td>ELECTR 110 Direct Current Circuit Analysis</td> <td>3</td> </tr> <tr> <td>ELECTR 111 Direct Current Circuit Laboratory</td> <td>1</td> </tr> <tr> <td>ELECTR 115 Alternating Current Circuit Analysis</td> <td>3</td> </tr> <tr> <td>ELECTR 116 Alternating Current Circuit Laboratory</td> <td>1</td> </tr> <tr> <td>ELECTR 230 Semiconductor Devices</td> <td>3</td> </tr> <tr> <td>ELECTR 235 Solid State Circuit Analysis</td> <td>4</td> </tr> <tr> <td>ELECTR 265 Digital Logic Design</td> <td>4</td> </tr> <tr> <td>INSPEC 014C Advanced Construction Inspection: National Electrical Code</td> <td>3</td> </tr> <tr> <td>INSPEC 024C Community Relations for Civil Service Employees</td> <td>3</td> </tr> <tr> <td>PE 231 First Aid and CPR</td> <td>3</td> </tr> <tr> <td>TECALC 087 Technical Calculations</td> <td>4</td> </tr> <tr> <td>TOTAL UNITS</td> <td>44</td> </tr> </table>	REQUIRED COURSES	UNITS	ELEC 216B Introduction to Industrial Electricity	4	ELEC 217B Industrial Electricity	4	ELEC 218B Controlling Industrial Electricity	4	ELECTR 110 Direct Current Circuit Analysis	3	ELECTR 111 Direct Current Circuit Laboratory	1	ELECTR 115 Alternating Current Circuit Analysis	3	ELECTR 116 Alternating Current Circuit Laboratory	1	ELECTR 230 Semiconductor Devices	3	ELECTR 235 Solid State Circuit Analysis	4	ELECTR 265 Digital Logic Design	4	INSPEC 014C Advanced Construction Inspection: National Electrical Code	3	INSPEC 024C Community Relations for Civil Service Employees	3	PE 231 First Aid and CPR	3	TECALC 087 Technical Calculations	4	TOTAL UNITS	44	FA07	Our current Electrical Power Technology Certificate does not contain all of the courses approved by the Electrician Certification Curriculum Committee pursuant to paragraph (2) of subdivision (a) of California Labor Code section 3099 and provided under the jurisdiction of the State Department of Education or the Board of Governors of the California Community Colleges for the General Electrician Certification requirements.
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AIR TRAVEL CAREERS - FLIGHT	<p>AIR TRAVEL CAREERS - FLIGHT CERTIFICATE</p> <p>This certificate is designed to prepare students for entry-level work as flight attendants. Students completing this certificate are also qualified to perform the tasks associated with the Ground certificate.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>AIRTVL 010 Computer Use in Travel Careers</td> <td>1</td> </tr> <tr> <td>AIRTVL 011 Survey of Travel Careers</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 012 Flight Attendant Survey</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 013 Image, Attitude and Appearance</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 014 Terminology, Codes and Operations</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 015 Employment Writing Skills</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 016 Employment Interviewing Skills</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 017 Introduction to Cultural Awareness</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 018 Ground and In-Flight Service</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 019 Ground and In-Flight Safety</td> <td>1.5</td> </tr> <tr> <td>AIRTVL 198 Air Travel Careers Work Experience</td> <td>1 - 4</td> </tr> <tr> <td>PE 231 First Aid and CPR</td> <td>3</td> </tr> </table> <p>Three (3) courses from the following list of Travel Geography are required for certification:</p> <table border="0"> <tr> <td></td> <td>UNITS</td> </tr> <tr> <td>AIRTVL 020 Travel Geography - Resort Destinations</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 022 Travel Geography - United States</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 023 Travel Geography - The Americas</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 024 Travel Geography - Pacific Rim</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 025 Travel Geography - Southern Europe</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 026 Travel Geography - Northern Europe</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 027 Travel Geography - Eastern Europe</td> <td>(1.5)</td> </tr> <tr> <td>AIRTVL 028 Travel Geography - Africa</td> <td>(1.5)</td> </tr> </table> <table border="0"> <tr> <td>RECOMMENDED COURSES BUT NOT REQUIRED</td> <td>UNITS</td> </tr> <tr> <td>AERO 121 Aviation Fundamentals</td> <td>(3)</td> </tr> <tr> <td>AERO 134 Civil Aviation Management & Laws</td> <td>(3)</td> </tr> <tr> <td>BUSAD 100 Introduction to Business</td> <td>(3)</td> </tr> <tr> <td>CIT 010 Beginning Keyboarding</td> <td>(3)</td> </tr> <tr> <td>ENGL 101 Freshman Composition</td> <td>(4)</td> </tr> <tr> <td>SPEECH 100 Elements of Public Speaking</td> <td>(3)</td> </tr> <tr> <td>TOTAL UNITS</td> <td>23 - 26</td> </tr> </table>	REQUIRED COURSES	UNITS	AIRTVL 010 Computer Use in Travel Careers	1	AIRTVL 011 Survey of Travel Careers	1.5	AIRTVL 012 Flight Attendant Survey	1.5	AIRTVL 013 Image, Attitude and Appearance	1.5	AIRTVL 014 Terminology, Codes and Operations	1.5	AIRTVL 015 Employment Writing Skills	1.5	AIRTVL 016 Employment Interviewing Skills	1.5	AIRTVL 017 Introduction to Cultural Awareness	1.5	AIRTVL 018 Ground and In-Flight Service	1.5	AIRTVL 019 Ground and In-Flight Safety	1.5	AIRTVL 198 Air Travel Careers Work Experience	1 - 4	PE 231 First Aid and CPR	3		UNITS	AIRTVL 020 Travel Geography - Resort Destinations	(1.5)	AIRTVL 022 Travel Geography - United States	(1.5)	AIRTVL 023 Travel Geography - The Americas	(1.5)	AIRTVL 024 Travel Geography - Pacific Rim	(1.5)	AIRTVL 025 Travel Geography - Southern Europe	(1.5)	AIRTVL 026 Travel Geography - Northern Europe	(1.5)	AIRTVL 027 Travel Geography - Eastern Europe	(1.5)	AIRTVL 028 Travel Geography - Africa	(1.5)	RECOMMENDED COURSES BUT NOT REQUIRED	UNITS	AERO 121 Aviation Fundamentals	(3)	AERO 134 Civil Aviation Management & Laws	(3)	BUSAD 100 Introduction to Business	(3)	CIT 010 Beginning Keyboarding	(3)	ENGL 101 Freshman Composition	(4)	SPEECH 100 Elements of Public Speaking	(3)	TOTAL UNITS	23 - 26	FA07	To reflect the new course numbers from 100 level to 0 level per Articulation Officer's recommendation.
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CIT 010 Beginning Keyboarding	(3)																																																										
ENGL 101 Freshman Composition	(4)																																																										
SPEECH 100 Elements of Public Speaking	(3)																																																										
<p>INSPECTION TECHNOLOGY</p>	<p>INSPECTION TECHNOLOGY CERTIFICATE</p> <p>This certificate is designed to prepare students for entry-level employment in construction inspection, examining the construction, alteration, or repair of buildings and other structures to ensure compliance with building codes and ordinances, zoning regulations, and contract specifications.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <p>REQUIRED COURSES</p> <table border="0"> <tr> <td></td> <td style="text-align: right;">UNITS</td> </tr> <tr> <td>INSPEC 010A Fundamentals of Construction Inspection I</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 011A Fundamentals of Construction Inspection II</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 012A Fundamentals of Construction Inspection III</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 013C Advanced Construction Inspection: Uniform Building Code</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 014C Advanced Construction Inspection: National Electrical Code</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 015C Advanced Construction Inspection: Uniform Plumbing Code</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 016C Advanced Construction Inspection: Uniform Mechanical Code</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 017C California State Energy Regulations for Residential Buildings</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 018C California State Energy Regulations for Non-residential Buildings</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 024C Community Relations for Civil Service Employees</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC 025C Building Inspection for Civil Service Employees: Communication and Enforcement</td> <td style="text-align: right;">3</td> </tr> <tr> <td>INSPEC0 026C Non-Structural Plan Review</td> <td style="text-align: right;">3</td> </tr> </table> <p>TOTAL UNITS</p> <p style="text-align: right;">36</p>		UNITS	INSPEC 010A Fundamentals of Construction Inspection I	3	INSPEC 011A Fundamentals of Construction Inspection II	3	INSPEC 012A Fundamentals of Construction Inspection III	3	INSPEC 013C Advanced Construction Inspection: Uniform Building Code	3	INSPEC 014C Advanced Construction Inspection: National Electrical Code	3	INSPEC 015C Advanced Construction Inspection: Uniform Plumbing Code	3	INSPEC 016C Advanced Construction Inspection: Uniform Mechanical Code	3	INSPEC 017C California State Energy Regulations for Residential Buildings	3	INSPEC 018C California State Energy Regulations for Non-residential Buildings	3	INSPEC 024C Community Relations for Civil Service Employees	3	INSPEC 025C Building Inspection for Civil Service Employees: Communication and Enforcement	3	INSPEC0 026C Non-Structural Plan Review	3	<p>FA07</p>	<p>To reflect changes in curriculum.</p>																														
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<p>WELDING – GENERAL</p>	<p>GENERAL WELDING CERTIFICATE This certificate is designed to provide students with an understanding of the terminology, concepts, procedures and skills used in the welding field to equip them with the fundamental skills necessary for entry- and intermediate-level employment.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <p>Students must complete ALL of the REQUIRED COURSES plus ONE of the RESTRICTED ELECTIVE COURSES.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>TECALC 950 Shop Calculations</td> <td>3</td> </tr> <tr> <td>or higher level math course</td> <td>3 - 4</td> </tr> <tr> <td>WELD 023 Oxy-Acetylene Welding</td> <td>3</td> </tr> <tr> <td>WELD 027 Strength of Materials Testing: Destructive</td> <td>3</td> </tr> <tr> <td>WELD 045 Shielded Metal Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 046 Intermediate Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 060 Layout Fitter I</td> <td>3</td> </tr> <tr> <td>WELD 066B Los Angeles City Welding Certification</td> <td>3</td> </tr> <tr> <td>WELD 070X4 Tig Welding</td> <td>1</td> </tr> <tr> <td>WELD 077X4 Continuous Wire Welding</td> <td>1</td> </tr> </table> <table border="0"> <tr> <td>RESTRICTED ELECTIVE COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 028 Strength of Materials Testing: Non-Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 061 Layout Fitter II</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 065B Welding Inspection Visual</td> <td>4</td> </tr> <tr> <td>TOTAL UNITS</td> <td>26 - 28</td> </tr> </table>	REQUIRED COURSES	UNITS	TECALC 950 Shop Calculations	3	or higher level math course	3 - 4	WELD 023 Oxy-Acetylene Welding	3	WELD 027 Strength of Materials Testing: Destructive	3	WELD 045 Shielded Metal Arc Welding	3	WELD 046 Intermediate Arc Welding	3	WELD 060 Layout Fitter I	3	WELD 066B Los Angeles City Welding Certification	3	WELD 070X4 Tig Welding	1	WELD 077X4 Continuous Wire Welding	1	RESTRICTED ELECTIVE COURSES	UNITS	WELD 028 Strength of Materials Testing: Non-Destructive	3	or		WELD 061 Layout Fitter II	3	or		WELD 065B Welding Inspection Visual	4	TOTAL UNITS	26 - 28	<p>FA07</p>	<p>To reflect changes in curriculum.</p>
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<p>WELDING- CONSOLIDATED</p>	<p>CONSOLIDATED WELDING CERTIFICATE This certificate is designed to provide students with comprehensive training in all welding areas including oxy-acetylene, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Core Arc Welding (FCAW) and Gas Tungsten Arc Welding (GTAW). Upon completing this certificate, students will be certified in accordance with the American Welding Society (AWS) standards and have an understanding of the terminology, concepts and skills necessary to secure a job in the welding profession.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <p>Students must complete a minimum of 26 units in any combination of the REQUIRED COURSES plus ONE of the RESTRICTED ELECTIVE COURSES.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 062 Consolidated Welding</td> <td>2 - 13</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 063 Consolidated Welding</td> <td>2 - 13</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 064X4 Consolidated Welding</td> <td>2 – 13</td> </tr> </table> <table border="0"> <tr> <td>RESTRICTED ELECTIVE COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 027 Strength of Materials Testing: Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 028 Strength of Materials Testing: Non-Destructive</td> <td>3</td> </tr> <tr> <td>TOTAL UNITS</td> <td>29</td> </tr> </table>	REQUIRED COURSES	UNITS	WELD 062 Consolidated Welding	2 - 13	or		WELD 063 Consolidated Welding	2 - 13	or		WELD 064X4 Consolidated Welding	2 – 13	RESTRICTED ELECTIVE COURSES	UNITS	WELD 027 Strength of Materials Testing: Destructive	3	or		WELD 028 Strength of Materials Testing: Non-Destructive	3	TOTAL UNITS	29	<p>FA07</p>	<p>To reflect changes in curriculum.</p>														
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<p>WELDING – FLUX CORE ARC</p>	<p>FLUX CORE ARC WELDING (FCAW) CERTIFICATE This certificate is designed to provide students with training in the semi-automatic welding process.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <p>Students must complete ALL the REQUIRED and ONE of the RESTRICTED ELECTIVE COURSES plus pass the FCAW Welding Certification either through the City of San Bernardino or Los Angeles. The practical welding certification test for both cities is administered by SBVC Welding Department.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 045 Shielded Metal Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 060 Layout Fitter I</td> <td>3</td> </tr> <tr> <td>WELD 077X4 Continuous Wire Welding</td> <td>1</td> </tr> </table> <table border="0"> <tr> <td>RESTRICTED ELECTIVE COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 027 Strength of Materials Testing: Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 028 Strength of Materials Testing: Non-Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 061 Layout Fitter II</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 065B Welding Inspection Visual</td> <td>4</td> </tr> <tr> <td>TOTAL UNITS</td> <td>10 - 11</td> </tr> </table>	REQUIRED COURSES	UNITS	WELD 045 Shielded Metal Arc Welding	3	WELD 060 Layout Fitter I	3	WELD 077X4 Continuous Wire Welding	1	RESTRICTED ELECTIVE COURSES	UNITS	WELD 027 Strength of Materials Testing: Destructive	3	or		WELD 028 Strength of Materials Testing: Non-Destructive	3	or		WELD 061 Layout Fitter II	3	or		WELD 065B Welding Inspection Visual	4	TOTAL UNITS	10 - 11	<p>FA07</p>	<p>To reflect changes in curriculum.</p>										
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<p>WELDING – GAS METAL ARC</p>	<p>GAS METAL ARC WELDING (GMAW) CERTIFICATE This certificate is designed to provide students with training in the Metal Inert Gas (MIG) welding process.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <p>Students must complete ALL the REQUIRED COURSES plus pass the GMAW Welding Certification either through the City of San Bernardino or Los Angeles. The practical welding certification test for both cities is administered by SBVC Welding Department.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 023 Oxy-Acetylene Welding</td> <td>3</td> </tr> <tr> <td>WELD 045 Shielded Metal Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 077X4 Continuous Wire Welding</td> <td>1</td> </tr> </table> <p>Students completing all course work but not finishing the GMAW Certification may proceed to the next certificate. In order to be awarded the certificate, both course work and certification must be completed.</p> <p>TOTAL UNITS 7</p>	REQUIRED COURSES	UNITS	WELD 023 Oxy-Acetylene Welding	3	WELD 045 Shielded Metal Arc Welding	3	WELD 077X4 Continuous Wire Welding	1	<p>FA07</p>	<p>To reflect changes in curriculum.</p>																
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<p>WELDING – GAS TUNGSTEN ARC</p>	<p>GAS TUNGSTEN ARC WELDING (GTAW) CERTIFICATE This certificate is designed to prepare students with training in the Tungsten Inert Gas (TIG) or Heli-Arc welding processes.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <p>Students must complete ALL the REQUIRED and ONE of the RESTRICTED ELECTIVE COURSES plus pass the GTAW Welding Certificate in either aluminum or stainless steel. This certification can be issued in conjunction with SBVC and the City of San Bernardino.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 023 Oxy-Acetylene Welding</td> <td>3</td> </tr> <tr> <td>WELD 045 Shielded Metal Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 070X4 Tig Welding</td> <td>1</td> </tr> </table> <table border="0"> <tr> <td>RESTRICTED ELECTIVE COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 027 Strength of Materials Testing: Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 028 Strength of Materials Testing: Non-Destructive</td> <td>3</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 065B Welding Inspection Visual</td> <td>4</td> </tr> <tr> <td>or</td> <td></td> </tr> <tr> <td>WELD 067B Structural Steel Special Inspection (ICBO)</td> <td>2</td> </tr> </table> <p>TOTAL UNITS 9 - 11</p>	REQUIRED COURSES	UNITS	WELD 023 Oxy-Acetylene Welding	3	WELD 045 Shielded Metal Arc Welding	3	WELD 070X4 Tig Welding	1	RESTRICTED ELECTIVE COURSES	UNITS	WELD 027 Strength of Materials Testing: Destructive	3	or		WELD 028 Strength of Materials Testing: Non-Destructive	3	or		WELD 065B Welding Inspection Visual	4	or		WELD 067B Structural Steel Special Inspection (ICBO)	2	<p>FA07</p>	<p>To reflect changes in curriculum.</p>
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<p>WELDING – SHIELDED METAL ARC</p>	<p>SHIELDED METAL ARC WELDING (SMAW) CERTIFICATE This certificate is designed to prepare students with the training in SMAW or STICK welding process, electrode identification, welding symbols, and joint design.</p> <p>Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <p>Students must complete ALL the REQUIRED COURSES plus pass the SMAW Welding Certification either through the City of San Bernardino or Los Angeles. The practical welding certification test for both cities is administered by SBVC Welding Department.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 023 Oxy-Acetylene Welding</td> <td>3</td> </tr> <tr> <td>WELD 045 Shielded Metal Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 046 Intermediate Arc Welding</td> <td>3</td> </tr> </table> <p>Students completing all course work but not finishing the SMAW Certification may proceed to the next certificate. In order to be awarded the certificate, both course work and certification must be completed.</p> <p>TOTAL UNITS 9</p>	REQUIRED COURSES	UNITS	WELD 023 Oxy-Acetylene Welding	3	WELD 045 Shielded Metal Arc Welding	3	WELD 046 Intermediate Arc Welding	3	<p>FA07</p>	<p>To reflect changes in curriculum.</p>																
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<p>WELDING – INSPECTION TECHNOLOGY</p>	<p>WELDING INSPECTION TECHNOLOGY CERTIFICATE This certificate is designed to prepare students for the American Welding Society (AWS) and/or International Conference of Building Officials (ICBO) Welding Inspector examination. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.</p> <table border="0"> <tr> <td>REQUIRED COURSES</td> <td>UNITS</td> </tr> <tr> <td>WELD 027 Strength of Materials Testing: Destructive</td> <td>3</td> </tr> <tr> <td>WELD 028 Strength of Materials Testing: Non-Destructive</td> <td>3</td> </tr> <tr> <td>WELD 045 Shielded Metal Arc Welding</td> <td>3</td> </tr> <tr> <td>WELD 065B Welding Inspection Visual</td> <td>4</td> </tr> <tr> <td>WELD 067B Structural Steel Special Inspection (ICBO)</td> <td>2</td> </tr> <tr> <td>TOTAL UNITS</td> <td>15</td> </tr> </table>	REQUIRED COURSES	UNITS	WELD 027 Strength of Materials Testing: Destructive	3	WELD 028 Strength of Materials Testing: Non-Destructive	3	WELD 045 Shielded Metal Arc Welding	3	WELD 065B Welding Inspection Visual	4	WELD 067B Structural Steel Special Inspection (ICBO)	2	TOTAL UNITS	15	<p>FA07</p>	<p>To reflect changes in curriculum.</p>										
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