

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

NEW COURSES

Course ID: **AUTO 056**
Course Title: Automotive Heating and Air Conditioning
Units: 4
Lecture: 3 Hours
Laboratory: 3 Hours
Prerequisite: None

Principles of automotive air conditioning and heating systems. Detail topics include repairing and replacing all components, diagnosis of both manual and automatic heater and air conditioning systems.

Associate Degree Applicable

Effective: FA 2003

Course ID: **AUTO 066**
Course Title: ASE Alternative A-6, A-8, L-1 Prep or Certificate
Units: 4
Lecture: 3 Hours
Laboratory: 3 Hours
Prerequisite: None

Course provides students with the opportunity to either use this course as a prep course or an alternative for taking ASE A-6 Electrical, ASE A-8 Engine Performance, ASE L-1 Advanced Engine Performance tests. Student wishing to secure alternative ASE certificate will be asked to pay for each test taken. Test certificate will be the same as securing an ASE certificate. **STUDENTS ENTERING THE COURSE MUST HAVE ONE-YEAR EXPERIENCE/EDUCATION IN THE AUTOMOTIVE ENGINE PERFORMANCE AREA.**

Associate Degree Applicable

Effective: FA 2003

Course ID: **AUTO 077**
Course Title: Manual Transmissions and Transaxles
Units: 4
Lecture: 3 Hours
Laboratory: 3 Hours
Prerequisite: None

Theory and practical work on front wheel drive manual transaxles and rear wheel drive manual transmissions in automobile and light truck applications including transfer cases, axle assemblies, and clutches.

Associate Degree Applicable

Effective: FA 2003

Rationale for new AUTO courses: Existing curriculum in automotive technology does not formally cover instruction in the service and repair of automotive air conditioning and heating systems and manual drive train and axles. In order to meet the goal established by the college administration, automotive faculty and their advisory committee, instruction in automotive air conditioning and heating systems is required for full NATEF certification.

NEW COURSES (continued)

Course ID: **MACH 091A**
Course Title: Rigging Systems and Techniques
Units: 3
Lecture: 2 Hours
Laboratory: 3 Hours
Prerequisite: None

Rigging system fundamentals and their various applications in the manufacturing, construction, and transportation industry. Students will study rigging equipment, rigging processes, and how to operate rigging systems such as power hoists, sling and assemblies, and overhead crane operations.

Associate Degree Applicable
Effective: FA 2003

Course ID: **MACH 092A**
Course Title: Fluid Power Systems I
Units: 2
Lecture: 1 Hour
Laboratory: 3 Hours
Prerequisite: None

This course focuses on basic hydraulic and pneumatic systems. The student will study hydraulics, pneumatic power, basic circuits, symbols, schematic diagrams, and principles of power and flow processes.

Associate Degree Applicable
Effective: FA 2003

Course ID: **MACH 093A**
Course Title: Fluid Power Systems II
Units: 2
Lecture: 1 Hour
Laboratory: 3 Hours
Prerequisite: MACH 092A

This course focuses on advanced hydraulic, advanced pneumatic and electro-fluid power systems. Fundamentals of fluid power controls including hydraulic and pneumatic directional control valves, electrical control of fluid power, cylinder application, air logic controls, electronic sensors, and vacuum systems.

Associate Degree Applicable
Effective: FA 2003

Course ID: **MACH 094A**
Course Title: Fluid Pump Systems
Units: 2
Lecture: 2 Hours
Laboratory: None
Prerequisite: None

This course focuses on an introduction to single- and multiple-stage pump operations, pump performance analysis, and pump selection and maintenance.

Associate Degree Applicable
Effective: FA 2003

NEW COURSES (continued)

Course ID: **MACH 095A**
Course Title: Piping Systems
Units: 1
Lecture: 1 Hour
Laboratory: None
Prerequisite: None

This course focuses on an introduction to piping and piping installation, tubing, hoses, and valves.
Associate Degree Applicable
Effective: FA 2003

Course ID: **MACH 096A**
Course Title: Central Lubrication
Units: 1
Lecture: 1 Hour
Laboratory: None
Prerequisite: None

This course focuses on an introduction to central lubrication operations, lubrication concepts, simple series/progressive lubrication, troubleshooting and maintenance.
Associate Degree Applicable
Effective: FA 2003

Course ID: **MACH 097A**
Course Title: Mechanical Systems
Units: 2
Lecture: 1 Hour
Laboratory: 3 Hours
Prerequisite: None

This course focuses on the basic of mechanical drive systems that include mechanical fasteners, measuring instruments, motors, power transmission systems, as well as mechanical drive installation processes.
Associate Degree Applicable
Effective: FA 2003

Rationale for new MACH courses: The need for the new courses is based on local industry needs. The programs are presently being piloted and taught through Economic Development at SBVC. The pilot program is training 21 students who are employees of local corporations. Presently, there is no program in existence that supports the local industry needs. The program's advisory committee has recommended the need for these new courses.

NEW COURSES (continued)

Course ID: **NURS 109**
Course Title: Vocational to Professional Nurse Transition
Units: 2
Lecture: 1.5 Hours
Laboratory: 1.5 Hours
Prerequisite: BIOL 250 and BIOL 251 (or BIOL 260 and BIOL 261), and BIOL 270 and PSYCH 100
Departmental Advisory: READ 970 and ENGL 015

Prepares Licensed Vocational Nurses to transition into the Registered Nursing program. Includes first level medical-surgical nursing content not contained in vocational nursing curricula. Prepares students to enter NURS 110 and NURS 112. Registration is limited to students who have a current California LVN license and have been accepted into the LVN to RN nursing program.

Associate Degree Applicable
Effective: FA 2003

Rationale: The new course will better meet our student's needs by allowing them to take the second semester of the program which includes hospital lab hours in an acute care setting. Assessment testing of nursing knowledge and math competency will enable placement in the program to promote successful completion of the nursing curriculum. Based upon the results of the assessment testing, students may be placed in either the first or second semester.

Course ID: **PE/I 143x4**
Course Title: Water Polo
Units: 1
Lecture: None
Laboratory: 3 Hours
Prerequisite: None

This course introduces the fundamental offensive techniques, defensive techniques, and conditioning skills necessary for the game of water polo. Activities will be designed to enhance skills in each of these areas. Enrollment is limited to students who can swim the front crawl stroke 200 yards without stopping.

Associate Degree Applicable
Effective: FA 2003

Rationale: Water polo will meet the needs of high school students who want to condition and train for water polo at their respective schools, before they begin competition. The offering will also expand the physical activity course offerings for continuing college students. Water polo is the fastest growing sport for women today. We need to be able to support and encourage participation of women and men after high school.

NEW COURSES (continued)

Course ID: **POLIT 110**
Course Title: Introduction to Political Theory
Units: 3
Lecture: 3 Hours
Laboratory: None
Prerequisite: None

This course surveys Western political thought from classical times to the contemporary period, and explores such controversial political questions as the nature of justice, the morality of political deception and violence, the proper limits of governmental power, the virtues (and challenges) of political diversity, and the future of the bourgeois state.

Associate Degree Applicable
Effective: FA 2003

Rationale: Introductory political theory is a standard lower division political science course offered at many other colleges and universities in our region. In the past students could only take this course as an honors course. With the addition of this course, non-honors students will also be able to complete Introduction to Political Theory for transfer credit toward the major.

Course ID: **POLIT 110H**
Course Title: Introduction to Political Theory **Honors**
Units: 3
Lecture: 3 Hours
Laboratory: None
Prerequisite: None

This course **utilizes selected primary texts to survey** Western political thought from classical times to the contemporary period, and explores such controversial political questions as the nature of justice, the morality of political deception and violence, the proper limits of governmental power, the virtues (and challenges) of political diversity, and the future of the bourgeois state. **Enrollment is limited to students eligible for the Honors Program.**

Associate Degree Applicable
Effective: FA 2003

Rationale: In order to be more consistent with SBVC's Honors Program courses, and to be more in line with local colleges and universities, we found it necessary to change the number of this course from POLIT 285 to POLIT110H. We believe this number is also more easily recognizable for students.

NEW COURSES (continued)

Course ID: **RTVF 120**
Course Title: Introduction to Radio Production
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: None

This course is an introduction to the principles of radio and audio aesthetics and production. It provides laboratory practice in conceiving, scripting, developing, and producing a variety of radio programs using a range of field and studio equipment including emerging digital technology.

Associate Degree Applicable

Effective: FA 2003

Course ID: **RTVF 121**
Course Title: Introduction to Digital Audio
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: None

This course introduces students to the theory and practice of audio production as it pertains to radio, television, and film. This course covers live broadcasting, recording, and postproduction editing, emphasizes aesthetics and techniques to ensure high quality sound using primarily digital equipment. Students learn effective digital file management, basic computer technology, and digital sound editing.

Associate Degree Applicable

Effective: FA 2003

Course ID: **RTVF 130**
Course Title: Introduction to Studio Production
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: None

This introductory course covers the organization of the television studio, control room, production language, and studio personnel. Includes sound recording and mixing concepts, shooting composition and aesthetics principles. Students produce and direct television productions. Topics include: camera operation, studio lighting techniques, the use of microphones and audio techniques, basic television graphics, and an introduction to the video switcher.

Associate Degree Applicable

Effective: FA 2003

NEW COURSES (continued)

Course ID: **RTVF 221**
Course Title: Radio Station Management
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisites: RTVF 120, RTVF 121

This course deals with radio station management functions, models, and operations. Students will program and manage student radio station KJRP, and produce remote broadcasts. Students gain experience in station management by serving as the program director, music director, production supervisor, and on-air announcers. Students will develop an understanding of the operation of radio stations, of audience rating methods, and their impact on programming design.

Associate Degree Applicable

Effective: FA 2003

Course ID: **RTVF 222**
Course Title: Independent Study in Radio/Television/Film
Units: 1-3
Lecture: None
Laboratory: 3-9 Hours

Assigned projects involving research, laboratory work, or directed study for selected students who are interested in furthering their knowledge of radio, television, or film production on an independent study basis. For each unit earned, students are required to devote three hours per week throughout the semester. Enrollment limited to those who meet independent study criteria. Prior to registration, a contract must be prepared. See instructor for details.

Associate Degree Applicable

Effective: FA 2003

Course ID: **RTVF 230**
Course Title: Intermediate Studio Production
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: RTVF 130

The second level course in the techniques of planning, producing, writing, and directing television programs with an emphasis on polishing technical skills, creativity, and teamwork. Explores advanced video switching techniques, the use and interpretation of the waveform monitor and vectorscope, video recording and editing formats, program rundowns, timing, and advanced director's cues. Students produce interview shows, music videos, and a half hour segmented program, including writing a rundown, front- and back-timing a show, and directing a live program.

Associate Degree Applicable

Effective: FA 2003

NEW COURSES (continued)

Course ID: **RTVF 231**
Course Title: Advanced Video Production
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: RTVF 131

In this second-level course students plan, produce, write, shoot, and edit television programs using both studio production and single video camera and editing equipment. The course includes hands on experience using remote video cameras, and linear and nonlinear editing equipment. Students will create their own video production, and assist other students in creating their projects. Students are not required to have their own camera.

Associate Degree Applicable

Effective: FA 2003

Course ID: **RTVF 240**
Course Title: Fundamentals of Film Production I
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: RTVF 131

This course is an introductory study of the aesthetic and technical aspects of digital film production. This course emphasizes a critical awareness of the aesthetics of narrative film techniques as applied in the construction of the students' productions. In this course, students produce their own narrative films and assist other students in other aspects of narrative film production including camera operation, set design, lighting, casting, and acting as a grip. Students should have a basic knowledge of digital video cameras and non-linear editing prior to taking this course.

Associate Degree Applicable

Effective: FA 2003

Course ID: **RTVF 241**
Course Title: Fundamentals of Film Production II
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: RTVF 240

This course is an intermediate study of the technical aspects of digital film production. This course explores scripts, shot lists, treatments, sound and directing as applied in the construction of the students' productions. In this course, students produce their own narrative films and assist other students in other aspects of narrative film production including camera operation, set design, lighting, casting and working as a grip.

Associate Degree Applicable

Effective: FA 2003

NEW COURSES (continued)

Course ID: **RTVF 242**
Course Title: Fundamentals of Film Production III
Units: 3
Lecture: 1 Hour
Laboratory: 6 Hours
Prerequisite: RTVF 241

This course is an advanced study of the technical aspects of digital film production. This course explores film scheduling, production, advanced editing techniques, budgeting, and distribution as applied in the construction of the students' productions. In this course, students produce their own narrative films and assist other students in other aspects of narrative film production including camera operation, set design, lighting, casting, and working as a grip.

Associate Degree Applicable

Effective: FA 2003

Rationale all RTVF courses: Aligns department and curriculum with CSU Transfer program.

Course ID: **SPAN 103H**
Course Title: College Spanish III - **Honors**
Units: 4
Lecture: 4 Hours
Laboratory: None
Prerequisite: SPAN 102

Develops complex conversational, reading and writing skills, with emphasis on the subjunctive and hypothetical situations. Expands vocabulary in the Spanish language and awareness of Hispanic culture through literature.

Enrollment is limited to students eligible for the Honors Program.

Associate Degree Applicable

Effective: FA 2003

Rationale: A honors level Spanish course is needed for the Transfer Alliance Program with UCLA.

Course ID: **SPEECH 100H**
Course Title: Elements of Public Speaking - **Honors**
Units: 3
Lecture: 3 Hours
Laboratory: None
Prerequisite: None

This course focuses on **advanced** training in the application of the concepts, principles, and skills of effective public speaking. Concepts such as structure, adapting messages to culturally diverse audiences, research principles, and critical evaluation of evidence and arguments are explored. Delivery, listening, and feedback skills are also discussed and practiced in a variety of presentations. **Enrollment is limited to students eligible for the Honors Program. This course is also offered as SPEECH 100.**

Associate Degree Applicable

Effective: FA 2003

Rationale: A honors level Speech course is needed for the Transfer Alliance Program with UCLA.

NEW COURSES (continued)

Course ID: **WELD 067A**
Course Title: Structural Steel Special Inspection (ICBO)
Units: 2
Lecture: 1 Hour
Laboratory: 3 Hours
Prerequisite: WELD 145 and WELD 060 or WELD 061

Designed to prepare students for the International Conference of Building Officials (ICBO) Inspector Certifications examinations. 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.

Associate Degree Applicable
Effective: FA 2003

Rationale: To prepare students for the International Conference of Building Officials (ICBO) Inspector Certifications examinations.

COURSE MODIFICATIONS

AERO 122B F.A.A. PRIVATE PILOT GROUND SCHOOL

Change To: AERO 122C
Number

Effective: FA 2003
Rationale: To reflect curriculum changes.

AERO 140B INSTRUMENT GROUND SCHOOL AND FLIGHT SIMULATORS

Change To: AERO 140C
Number

Effective: FA 2003
Rationale: To reflect curriculum changes.

ART 120x4 BASIC DESIGN

Change To: ART 120
Number

Change To: Two-Dimensional Design
Title

Change To: A progressive study of the elements and
Catalog and Schedule principles of two-dimensional design. Focus on
Description the concepts, tools, and techniques intrinsic to
visual communication. Included are color theory
and the use of color to manipulate the illusion of
space on a two-dimensional plane.

Effective: FA 2003
Rationale: To reflect curriculum changes.

ART 185 BEGINNING WEB AND MULTIMEDIA DESIGN

Change To: ART 148
Prerequisite

Effective: FA 2003
Rationale: To reflect curriculum changes.

ART 186 INTERMEDIATE WEB AND MULTIMEDIA DESIGN

Change To: Intermediate Web and Multimedia Design:
Title Flash

Change To: Focus on interactive motion graphics for web
Catalog and Schedule site and disk distribution, using applications such
Description as Macromedia Flash. Emphasis will be given to
design concept well as an understanding of
structure and impact web media and CD-ROM.

Effective: FA 2003
Rationale: To reflect curriculum changes.

COURSE MODIFICATIONS (continued)

AUTO 064

AUTOMOTIVE ELECTRICAL SYSTEMS I

Change Title To: Automotive Electrical

Change Catalog and Schedule Description To: Principles of automotive electricity and electronics systems covering batteries, charging and starting systems. Detail topics include the use of a digital multi-meter for the analysis of series, parallel, and series-parallel circuits.

Effective: FA 2003

AUTO 065

AUTOMOTIVE ELECTRICAL SYSTEMS II

Change Title To: Automotive Body Electrical

Change Catalog and Schedule Description To: Principles of automotive electricity and electronics systems covering the use of a digital multi-meter, lighting, gauges, accessories, electronics, automotive body computers and solid-state devices, and communication systems.

Change Prerequisite To: None

Effective: FA 2003

AUTO 067x3

AUTOMOTIVE SMOG CONTROLS

Change Number To: AUTO 067

Change Title To: Automotive Emissions

Change Catalog and Schedule Description To: All technicians wishing to become state licensed smog inspection technician must take the Basic Area Clean Air Car Course (68 Hours) and Enhanced Clean Air Car Course (28 Hours). **STUDENT ENTERING THE COURSE MUST HAVE ONE-YEAR EXPERIENCE / EDUCATION IN THE AUTOMOTIVE ENGINE PERFORMANCE AREA.**

Effective: FA 2003

COURSE MODIFICATIONS (continued)

AUTO 068x3

AUTOMOTIVE CARBURETION, IGNITION AND TUNE-UP

Change
Number

To: AUTO 068

Change
Title

To: Ignition Systems

Change
Catalog and Schedule
Description

To: Principles of automotive engine performance covering general engine diagnosis, ignition system diagnosis and repair, and ignition related computerized engine controls.

Effective: FA 2003

AUTO 069x3

AUTOMOTIVE CARBURETION AND IGNITION

Change
Number

To: AUTO 069

Change
Title

To: Fuel and Exhaust Systems

Change
Catalog and Schedule
Description

To: Introduction to emission controls diagnosis and repair, fuel and emission related computerized engine controls, and fuel and exhaust systems.

Effective: FA 2003

AUTO 075x4

HYDRAULIC AND AUTOMOMATIC TRANSMISSIONS: CHRYSLER 3 SPEED AND OVERDRIVE

Change
Number

To: AUTO 075

Change
Title

To: Automatic Transmissions Rear Wheel Drive

Change
Catalog and Schedule
Description

To: Theory and practical work on rear wheel drive automatic transmissions in automobile and light truck applications. Course offers preparation information for the Automotive Service Excellence (ASE) A2 certification test.

Effective: FA 2003

COURSE MODIFICATIONS (continued)

AUTO 076x4 HYDRAULIC AND AUTOMOMATIC TRANSMISSIONS: FORD C-5 AND OVERDRIVE
AUTOMATIC UNITS

Change Number	To: AUTO 076
Change Title	To: Automatic Transaxles Front Wheel Drive
Change Catalog and Schedule Description	To: Theory and practical work on front-wheel drive automatic transaxles in automobile applications. Course offers preparation information for the Automotive Service Excellence (ASE) A2 certification test.

Effective: FA 2003

AUTO 084x4 GENERAL AUTOMOTIVE TECHNOLOGY

Change Number	To: AUTO 084
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Effective: FA 2003

Rationale all AUTO courses: To conform to NATEF requirements.

COMM 100 INTRODUCTION TO BROADCASTING

Change Number	To: RTVF 100
Change Title	To: Introduction to Radio, Television, and Film
Change Catalog and Schedule Description	To: This course presents an overview of the history, structure, and function of the radio, TV, and film industry. It covers the development and nature of radio, television, cable, film, and Internet communications including current social, legal, political, economic and cultural implications of the media; advertising and audience measurement strategies; programming; and employment opportunities.

Effective: FA 2003

Rationale: To reflect curriculum changes.

COURSE MODIFICATIONS (continued)

COMM 106x2 ADVANCED RADIO PRODUCTION

Change Number	To: RTVF 220
Change Title	To: Intermediate Radio Production and Operations
Change Prerequisite	To: RTVF 120 and RTVF 121
Change Catalog and Schedule Description	To: Individual and group production of short- and long-form radio projects such as: Promotional spots, features, magazines, music programming, and news. Project conception, development, management, and implementation, including remote broadcasting. Contact with radio professionals. Student projects air on student radio-station KJRP.

Effective: FA 2003

Rationale: To reflect curriculum changes.

COMM 110 BASIC WRITING FOR BROADCASTING

Change Number	To: RTVF 104
Change Prerequisite	To: ENGL 914

Effective: FA 2003

Rationale: To reflect curriculum changes.

COMM 113 RADIO AND TELEVISION ADVERTISING

Change Number	To: RTVF 105
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Effective: FA 2003

Rationale: To reflect curriculum changes.

COMM 114 WRITING FOR TELEVISION AND FILM

Change Number	To: RTVF 106
Change Prerequisite	To: ENGL 914

Effective: FA 2003

Rationale: To reflect curriculum changes.

COMM 115 INTRODUCTION TO COMMUNICATIONS TECHNOLOGY

Change Number	To: RTVF 107
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Effective: FA 2003

Rationale: To reflect curriculum changes.

COURSE MODIFICATIONS (continued)

COMM 206**INTRODUCTION TO DIGITAL VIDEO**

Change
Number

To: RTVF 131

Change
Catalog and Schedule
Description

To: This course is an introductory study of digital television technology and its uses in the marketplace. This course identifies the differences between digital and analog video, explores digital video interfaces, digital video platforms, the digital VTR, non-linear video editing, and the digital video studio. The focus is on all forms of digital video, but students receive hands-on training with digital video recording and editing equipment.

Effective: FA 2003

Rationale: To reflect curriculum changes.

ENVT 109**TRANSPORTATION OF HAZARDOUS MATERIALS**

Change
Prerequisite

To: NONE

Effective: FA 2003

Rationale: The prerequisite is not a required for this course.

INSPEC 013A**ADVANCED CONSTRUCTION INSPECTION: UNIFORM BUILDING CODE**

Change
Number

To: INSPEC 013B

Effective: FA 2003

INSPEC 014A**ADVANCED CONSTRUCTION INSPECTION: NATIONAL ELECTRICAL CODE**

Change
Number

To: INSPEC 014B

Effective: FA 2003

INSPEC 015A**ADVANCED CONSTRUCTION INSPECTION: UNIFORM PLUMBING CODE**

Change
Number

To: INSPEC 015B

Effective: FA 2003

INSPEC 016A**ADVANCED CONSTRUCTION INSPECTION: UNIFORM MECHANICAL CODE**

Change
Number

To: INSPEC 016B

Effective: FA 2003

COURSE MODIFICATIONS (continued)

INSPEC 017A CALIFORNIA STATE ENERGY REGULATIONS FOR RESIDENTIAL BUILDINGS

Change Number To: INSPEC 017B

Effective: FA 2003

INSPEC 018A CALIFORNIA STATE ENERGY REGULATIONS FOR NON-RESIDENTIAL BUILDINGS

Change Number To: INSPEC 018B

Effective: FA 2003

INSPEC 024A BUILDING INSPECTION FOR CIVIL SERVICE EMPLOYEES: PSYCHOLOGY

Change Number To: INSPEC 024B
Change Title To: Community Relations for Civil Service Employees
Change Catalog and Schedule Description To: Introduction to Community Relations for Civil Service Employees

Effective: FA 2003

INSPEC 025A BUILDING INSPECTION FOR CIVIL SERVICE EMPLOYEES: COMMUNICATION AND ENFORCEMENT

Change Number To: INSPEC 025B

Effective: FA 2003

INSPEC 026A NON-STRUCTURAL PLAN REVIEW

Change Number To: INSPEC 026B

Effective: FA 2003

Rationale for all INSPEC courses: The model codes codified in state law change every three years to allow for new technology and processes. Additionally, AB 717 requires inspection personnel to participate in 45 clock hours of continuing education in every three-year period. The ability to repeat will provide students and industry with a reputable upgrade option.

COURSE MODIFICATIONS (continued)

MACH 072A

COMPUTER AIDED DESIGN/COMPUTER AIDED MANUFACTURING I

Change
Number

To: MACH 072B

Change
Catalog and Schedule
Description

To: The study and use of MasterCam software with emphasis on drawing 2-D solids construction and part design basics related to 2-D models part programming for mills, lathes, and Electric Discharge Machines (EDM) machining processes.

Effective: FA 2003

Rationale: Due to manufacturing technology standards changing, the National Metal Working Standards (NIMS) recommend that upgrade training be implemented on a three-year basis.

MACH 073A

COMPUTER AIDED DESIGN/COMPUTER AIDED MANUFACTURING II

Change
Number

To: MACH 073B

Change
Catalog and Schedule
Description

To: The study and use of MasterCam's mill and solids software to generate tool path, program codes, tooling information, and part coordinate information.

Effective: FA 2003

Rationale: Due to manufacturing technology standards changing, the National Metal Working Standards (NIMS) recommend that upgrade training be implemented on a three-year basis.

PE-I 103X4

BADMINTON

Change
Catalog and Schedule
Description

To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.

Effective: FA 2003

PE-I 105X4

LOW IMPACT AEROBICS

Change
Catalog and Schedule
Description

To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.

Effective: FA 2003

COURSE MODIFICATIONS (continued)

PE-I 107X4	CROSS COUNTRY SKIING	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 108X4	WEIGHT TRAINING	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 110X4	FOIL FENCING	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 111X4	MOUNTAIN BIKING	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 115X4	EPEE-SABRE FENCING	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 127X4	WALKING FOR FITNESS	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			

COURSE MODIFICATIONS (continued)

PE-I 138X4	PHYSICAL FITNESS	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 144X4	RACQUETBALL	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 148X4	TENNIS	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 164X4	SWIMMING	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 168X4	YOGA	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
PE-I 173X4	WATER AEROBICS	Change Catalog and Schedule Description	To: An introductory level course teaching either a lifelong activity or sport. The course will emphasize the principles and techniques or skills and rules required in each activity or sport. Each course may be taken four times.
<i>Effective: FA 2003</i>			
<i>Rationale for all PE-I courses: To update schedule with current catalog description.</i>			

DELETE COURSES

ACCT 015

**AUTO 056x3
AUTO 058x3
AUTO 059x3
AUTO 060x3
AUTO 061x3
AUTO 070x3
AUTO 071x3
AUTO 072x3
AUTO 073x3
AUTO 079x3
AUTO 080x3**

**COMM 010
COMM 015
COMM 101
COMM 102x4
COMM 105
COMM 116
COMM 117x2
COMM 200
COMM 201
COMM 202
COMM 203x2
COMM 204
COMM 207
COMM 208x2
COMM 222
COMM 223**

HEALTH 102

**NURS 114
NURS 116**

PE 202

POLIT 285

Effective: FA 2003

Rationale all DELETE courses: To reflect curriculum changes.

DISTRIBUTED EDUCATION DELIVERY COURSES

READ 970x3

Effective: FA 2003

MODIFY DEGREES

CHILD DEVELOPMENT – ASSOCIATE OF ARTS DEGREE

To graduate with a specialization in Child Development, students must complete the following required courses (28 units) plus the general breadth requirements for the Associate of Arts degree. (Total = 60 units)

Required courses:	Units
CD 100 Introduction to Child Development	3
CD 105 Child Growth and Development	3
CD 112 Principles and Practices in Early Childhood	3
CD 126 Child, Family and the Community	3
 Four courses from the following list:	 12
CD 101 Parent Child Interaction	(3)
CD 130 Creative Music and Movement for Children	(3)
CD 133 Creative Science and Math Activities for Children	(3)
CD 134 Language, Listening and Literature for Children	(3)
CD 136 Creative Art Activities for Children	(3)
CD 137 Play and Materials for Children	(3)
CD 138 Cultural Diversity/Anti-Bias Curriculum	(3)
CD 140 Spanish for Child Development	(3)
CD 231 Health and Safety Practices for Children	(3)
CD 232 Nutrition for Young Children	(3)
 Experience working with children:	 4
CD 198 Child Development Work Experience	(4)
or	
CD 205x2 Child Growth and Development Laboratory	(4)
 TOTAL CHILD DEVELOPMENT UNITS:	 28
 General Breadth Requirements & Elective Units:	 32
(See catalog and/or counselor.)	
TOTAL UNITS:	60

Effective: FA 2003

Rationale: To reflect changes to curriculum.

MODIFY DEGREES (continued)

FAMILY CONSUMER SCIENCE – ASSOCIATE OF ARTS DEGREE

The Family and Consumer Science Associate of Science Degree is as unique and diverse as the needs of the students it serves. Family and Consumer Science, is comprised of three diverse specialties 1) Food Science and Nutrition; 2) Clothing & Fashion Merchandising; and 3) Interior Design.

Career opportunities in the business, industry and public sectors exist for graduates with an AS Degree in Family Consumer Science, they include the following:

- Apparel Designer or Manufacturer
- Retail Manager or Sales
- Interior Designer or Assistant
- Nutrition and Health Counselor
- Fashion Coordinator
- Family Life Educator

Required courses:

	<i>Units</i>
FCS 130 Principles of Apparel Construction	3
FCS 132 Advanced Principles of Apparel Construction	3
FCS 148 Fashion Selection	3
FCS 160 Introduction to Foods	3
FCS 161 Quantity Food Preparation	3
FCS 162 Nutrition	3

Total Units: 18

Recommended courses:

	<i>Units</i>
FCS 108 Personal Finance	3

Effective: FA 2003

Rationale: The changes to the FCS degree within the recommended course listings are being made in order to meet the needs of students within the program and will improve the ability of students to complete the FCS degree in a timely manner.

MODIFY DEGREES (continued)

RADIO/TELEVISION/FILM – ASSOCIATE OF ARTS DEGREE

The Radio/Television/Film department offers a comprehensive instructional program in radio and television broadcasting, digital film production, and digital audio and video production for use in multimedia and Internet applications. The department provides a two-year curriculum for students majoring in the field resulting in the Associate of Arts Degree and/or transfer to a four-year institution and provides elective courses for students interested in related fields such as marketing, journalism, theater arts, multimedia, web page design, and data communications. The instructional program includes internships at local stations and businesses, on-air experience using the facilities of the student radio station KJRP and public television station KVCR-TV, which is licensed to the San Bernardino Community College District.

To graduate with an Associate of Arts degree with a specialization in Radio, Television, Film production, or the general RTVF concentration, students must: 1) complete the following core courses, 2) complete either the Radio, Television, Film, or general RTVF concentration, and 3) complete the general breadth requirements for the Associate Degree for a total of 60 units.

To complete a certificate, students must: 1) complete the following core courses, and 2) complete either the Radio, Television, Film, or the general RTVF concentration for a total of 21 units.

REQUIRED for all concentrations:	Units
RTVF 100 OR Introduction to Radio, Television, and Film	3
Speech 135 Mass Media and Society	

Complete courses listed for one of the below concentrations:

RTVF Concentration:

RTVF 121 Introduction to Digital Audio	3
RTVF 131 Introduction to Digital Video	3
RTVF 130 Introduction to Studio Production	3
RTVF 240 Fundamentals of Film Production I	3

Television Concentration:

RTVF 131 Introduction to Digital Video	3
RTVF 130 Introduction to Studio Production	3
RTVF 230 Intermediate Studio Production	3
RTVF 231 Advanced Video Production	3

Radio Concentration:

RTVF 120 Introduction to Radio Production	3
RTVF 121 Introduction to Digital Audio	3
RTVF 220 Intermediate Radio Production and Operations	3
RTVF 221 Radio Station Management	3

Film Concentration:

RTVF 131 Introduction to Digital Video Production	3
RTVF 240 Fundamentals of Film Production I	3
RTVF 241 Fundamentals of Film Production II	3
RTVF 242 Fundamentals of Film Production III	3

Plus six units selected from other RTVF offerings: 6

Total Units: 21

Effective: FA 2003

Rationale: To reflect curriculum changes.

Curriculum Meetings: 01-27-03; 02-10-03; 02-24-03
Conjoint Meeting: 02-25-03 (electronic)
Board of Trustee Meeting: 03-13-03

NEW CERTIFICATES

DIGITAL FILM PRODUCTION CERTIFICATE

Required Courses:	Units
RTVF 100 Introduction to Radio, Television, and Film	3
or	
SPEECH 135 Mass Media and Society	(3)
RTVF 131 Introduction to Digital Video Production	3
RTVF 240 Fundamentals of Film Production I	3
RTVF 241 Fundamentals of Film Production II	3
RTVF 242 Fundamentals of Film Production III	3
Plus six units selected from the following:	6
ART 110 History of American Cinema	(3)
ART 11 Studies in Film Appreciation	(3)
ENGL 153 Literature and Film	(3)
Any additional RTVF offerings	(3)
Total Units:	21

Effective: FA 2003

Rationale: To reflect curriculum changes.

MECHANICAL HYDRAULICS/PNEUMATICS CERTIFICATE

The Mechanical Hydraulics/Pneumatics Certificate program is designed to qualify students for entry-level work in industrial mechanical hydraulics maintenance with training on state-of-the-art pneumatic systems, basic components, pumps and hydraulic simulation equipment. This certificate enables the holder to perform many plant maintenance requirements.

Required Courses:	Units
MACH 021A Machine Shop I	4
MACH 090A Engineering Blueprint Reading, Geometric Dimensioning and Tolerancing	3
MACH 091A Rigging Systems and Techniques	3
MACH 092A Fluid Power Systems I	2
MACH 093A Fluid Power Systems II	2
MACH 094A Fluid Pump Systems	2
MACH 095A Piping Systems	1
MACH 096A Central Lubrication	1
MACH 097A Mechanical Systems	2
TECALC 097 Technical Calculations	4
WELD 145 Shielded Metal Arc Welding	3
Total Units:	27

Effective: FA 2003

Rationale: The need for the new certificate is based on local industry needs. The program is presently being piloted and taught through Economic Development at SBVC. Presently, there is no program in existence that supports the local industry needs. The program's advisory committee has recommended the need for this new certificate.

NEW CERTIFICATES (continued)

ENGINE PERFORMANCE CERTIFICATE

This certificate is designed to qualify students for entry-level employment as Automotive Technicians. Successful completion of the certificate program will qualify students for assignment such as Engine Performance Specialists in areas such as computer systems, electrical systems, engine fuel and exhaust systems, and basic engine diagnosis.

Required Courses:		Units
AUTO 064	Automotive Electrical	4
AUTO 065	Automotive Body Electrical	4
AUTO 066	ASE Alternative A-6, A-8, L-1 Prep or Certificate	4
AUTO 067	Automotive Emissions	4
AUTO 068	Ignition Systems	4
AUTO 069	Fuel and Exhaust Systems	4
AUTO 084	General Automotive Technology	4
AUTO 090x3	Engine Repair	6
TECALC 097	Technical Calculations	4
Total Units:		38

Effective: FA 2003

Rationale: In order to meet NATEF certification.

ADVANCED AUTOMOTIVE BODY AND PAINT TECHNICIAN

This certificate program is designed to provide students with the knowledge and skills necessary for employment as an auto body repair apprentice and an auto painter apprentice beyond the Basic Automotive Body and Paint Technician Certificate. This certificate prepares students for Automotive Service Excellent (ASE) certification, and related areas of an automotive dealership or shop, such as an assistant to a chassis, front end and brake specialist, as well as a frame repair technician and parts counter clerk.

Required Courses:		Units
AUTO 038x3	Basic Auto Body	9
AUTO 039x3	Secondary Auto Body	9
AUTO 048x3	Intermediate Auto Body	9
AUTO 055	Advanced Auto Body	5
AUTO 056	Automotive Heating and Air Conditioning	4

Must complete one subject from each category:

Category #1

AUTO 052	Automotive Suspension and Steering	4
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Category #2

AUTO 064	Automotive Electrical	4
or		
AUTO 065	Automotive Body Electrical	(4)

Category #3

TECALC 950	Shop Calculations	3
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Total Units: 47

Effective: FA 2003

Rationale: To reflect curriculum changes.

Curriculum Meetings: 01-27-03; 02-10-03; 02-24-03

Conjoint Meeting: 02-25-03 (electronic)

Board of Trustee Meeting: 03-13-03

MODIFY CERTIFICATES (continued)

AUTOMOTIVE TECHNICIAN CERTIFICATE

This certificate is designed to qualify students for entry-level employment as Automotive Technicians. Successful completion of the certificate program will qualify students for assignment such as New Car Preps, Engine Performance Diagnoses, Automotive Maintenance, and Service Technicians.

Required Courses:		Units
AUTO 064	Automotive Electrical	4
AUTO 065	Automotive Body Electrical	4
AUTO 068	Ignition Systems	4
AUTO 069	Fuel and Exhaust Systems	4
AUTO 075x3	Automatic Transmissions Rear Wheel Drive	2-6
or		
AUTO 076x3	Automatic Transaxles Front Wheel Drive	(2-6)
AUTO 084	General Automotive Technology	4
AUTO 090x3	Engine Repair	6
TECALC 950	Shop Calculations	3
Total Units:		31-35

Effective: FA 2003

Rationale: To reflect curriculum changes.

AUTOMATIC TRANSMISSION CERTIFICATE

This certificate program is designed for entry-level employment as an automatic transmission specialist.

Required Courses:		Units
AUTO 064	Automotive Electrical	4
or		
AUTO 065	Automotive Body Electrical	(4)
AUTO 075x3	Automatic Transmissions Rear Wheel Drive	2-6
AUTO 076x3	Automatic Transaxles Front Wheel Drive	2-6
AUTO 077	Manual Transmissions and Transaxles	4
AUTO 084	General Automotive Technology	4
AUTO 090x3	Engine Repair	6
TECALC 950	Shop Calculations	3
Total Units:		25-33

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

RADIO/TELEVISION/FILM CERTIFICATE

REQUIRED for all concentrations: **Units**

RTVF 100	Introduction to Radio, Television, and Film	3
or		
SPEECH 135	Mass Media and Society	(3)

RTVF Concentration:

RTVF 121	Introduction to Digital Audio	3
RTVF 131	Introduction to Digital Video	3
RTVF 130	Introduction to Studio Production	3
RTVF 240	Fundamentals of Film Production I	3

Plus six units selected from other RTVF offerings: 6

Total Units: 21

Effective: FA 2003

Rationale: To reflect curriculum changes.

RADIO CERTIFICATE

Required Courses: **Units**

RTVF 100	Introduction to Radio, Television, and Film	3
or		
SPEECH 135	Mass Media and Society	(3)
RTVF 120	Introduction to Radio Production	3
RTVF 121	Introduction to Digital Audio	3
RTVF 220	Intermediate Radio Production and Operations	3
RTVF 221	Radio Station Management	3

Plus six units selected from other RTVF offerings: 6

Total Units: 21

Effective: FA 2003

Rationale: To reflect curriculum changes.

TELEVISION CERTIFICATE

Required Courses: **Units**

RTVF 100	Introduction to Radio, Television, and Film	3
or		
SPEECH 135	Mass Media and Society	(3)
RTVF 131	Introduction to Digital Video	3
RTVF 130	Introduction to Studio Production	3
RTVF 230	Intermediate Studio Production	3
RTVF 231	Advanced Video Production	3

Plus six units selected from other RTVF offerings: 6

Total Units: 21

Effective: FA 2003

Rationale: To reflect curriculum changes.

Curriculum Meetings: 01-27-03; 02-10-03; 02-24-03
Conjoint Meeting: 02-25-03 (electronic)
Board of Trustee Meeting: 03-13-03

MODIFY CERTIFICATES (continued)

COMPUTER NUMERICAL CONTROL: CAD/CAM

Required Courses:		Units
Machine Technology Core Requirements (as listed in the current SBVC Catalog)		25
MACH 070A	Computer Numerical Control Machining I	(3)
MACH 071A	Computer Numerical Control Machining II	(3)
MACH 072B	Computer Aided Design/Computer Aided Manufacturing I	(3)
MACH 073B	Computer Aided Design/Computer Aided Manufacturing II	(3)
MACH 074A	Set-up and Operation of Various Machine Controls	(3)
MACH 129A	Manufacturing Processes	(3)
Total Units for the Computer Numerical Control: CAD/CAM specialized courses		18
Total Units required for the Computer Numerical Control: CAD/CAM Certificate		43

Effective: FA 2003

Rationale: To reflect curriculum changes.

ENGINE PERFORMANCE CERTIFICATE

This certificate is designed to qualify students for entry-level employment as Automotive Technicians. Successful completion of the certificate program will qualify students for assignment such as Engine Performance Specialists in areas such as computer systems, electrical systems, engine fuel and exhaust systems, and basic engine diagnosis.

Required Courses:		Units
AUTO 064	Automotive Electrical	4
AUTO 065	Automotive Body Electrical	4
AUTO 066	ASE Alternative A-6, A-8, L-1 Prep or Certificate	4
AUTO 067	Automotive Emissions	4
AUTO 068	Ignition Systems	4
AUTO 069	Fuel and Exhaust Systems	4
AUTO 084	General Automotive Technology	4
AUTO 090x3	Engine Repair	6
TECALC 097	Technical Calculations	4
Total Units:		38

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

FLIGHT OPERATIONS AND MANAGEMENT

Required Courses:	Units
AERO 121 Aviation Fundamentals	3
*AERO 122C F.A.A. Private Pilot Ground School	6
AERO 124 Aircraft Power Plants	3
AERO 125 Flight Safety	2
AERO 126 Aircraft Structures	3
AERO 134 Civil Aviation Management and Laws	3
AERO 140C Instrument Ground School and Flight Simulators	4
AERO 144 Aviation Weather	3
BUSAD 100 Introduction to Business	3
MATH (See advisor for appropriate level)	3-4
PHYSICS 101 Basic Physics	4
Total Units:	37-38

*Will be waived if students have taken equivalent course.

Effective: FA 2003

Rationale: To reflect curriculum changes.

FLIGHT OPERATIONS

The certificate program in Flight Operations is designed for students interested in careers as a pilot in general aviation, commercial aviation, or military aviation. This certificate prepares students for immediate employment or for transfer to other colleges, and includes Federal Aviation Administration approved curricula in basic ground school, advanced ground school, and instrument ground school. Through the San Bernardino Valley College Flying Club, students have the opportunity to gain additional flight experience at a nominal cost as they prepare for the private pilot, commercial pilot, or instrument pilot ratings.

Required Courses:	Units
AERO 121 Aviation Fundamentals	3
*AERO 122C F.A.A. Private Pilot Ground School	6
AERO 124 Aircraft Power Plants	3
AERO 125 Flight Safety	2
AERO 126 Aircraft Structures	3
AERO 140C Instrument Ground School and Flight Simulators	4
AERO 144 Aviation Weather	3
Total Units:	24

*Will be waived if students have taken equivalent course.

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

FLUX CORE ARC WELDING (FCAW) CERTIFICATE

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.

Required Courses:		Units
WELD 145	Shielded Metal Arc Welding	3
WELD 060	Layout Fitter I	3
WELD 077x4	Continuous Wire Welding	1
Restricted Elective Courses:		Units
WELD 061	Layout Fitter II	3
or		
WELD 065A	Welding Inspection Visual	(4)
or		
WELD 128	Strength of Materials Testing: Non-Destructive	(3)
Total Units Required for FCAW Certificate:		10-11

Effective: FA 2003

Rationale: To reflect curriculum changes.

GAS METAL ARC WELDING (GMAW) CERTIFICATE

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.

Required Courses:		Units
WELD 123	Oxy-Acetylene Welding	3
WELD 145	Shielded Metal Arc Welding	3
WELD 077x4	Continuous Wire Welding	1
Total Units:		7

NOTE: 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.

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

GAS TUNGSTEN ARC WELDING (GTAW) CERTIFICATE

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.

Required Courses:		Units
WELD 123	Oxy-Acetylene Welding	3
WELD 145	Shielded Metal Arc Welding	3
WELD 070x4	Tig Welding	1
Restricted Elective Courses:		Units
WELD 065A	Welding Inspection Visual	4
or		
WELD 067A	Structural Steel Special Inspection (ICBO)	(2)
or		
WELD 128	Strength of Materials Testing: Non-Destructive	(3)
Total Units:		9-11

Effective: FA 2003

Rationale: To reflect curriculum changes.

GENERAL WELDING CERTIFICATE

Students must complete all of the **Required Courses** plus **one of the Restricted Electives Courses**.

Required Courses:		Units
TECALC 950	Shop Calculations or higher level math course	3
WELD 123	Oxy-Acetylene Welding	3
WELD 145	Shielded Metal Arc Welding	3
WELD 146	Intermediate Arc Welding	3
WELD 060	Layout Fitter I	3
WELD 066A	Los Angeles City Welding Certification	3
WELD 070x4	Tig Welding	1
WELD 077x4	Continuous Wire Welding	1
WELD 127	Strength of Materials Testing: Destructive	3
Total Units:		23

Select one of the following:

Restricted Electives Courses:		Units
WELD 061	Layout Fitter II	3
or		
WELD 065A	Welding Inspection Visual	(4)
or		
WELD 128	Strength of Materials Testing: Non-Destructive	(3)
Total Units:		26-27

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

SHIELDED METAL ARC WELDING (SMAW) CERTIFICATE

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.

Required Courses:		Units
WELD 123	Oxy-Acetylene Welding	3
WELD 145	Shielded Metal Arc Welding	3
WELD 146	Intermediate Arc Welding	3
Total Units:		9

NOTE: 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.

Effective: FA 2003

Rationale: To reflect curriculum changes.

WHEEL ALIGNMENT AND BRAKES CERTIFICATE

Required Courses:		Units
AUTO 050	Automotive Brakes	4
AUTO 051	Advanced Automotive Brakes	4
AUTO 052	Automotive Suspension and Steering	4
AUTO 053	Advanced Automotive Suspension and Steering	4
AUTO 064	Automotive Electrical	4
AUTO 084	General Automotive Technology	4
TECALC 950	Shop Calculations	3
Total Units:		27

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

ASSOCIATE TEACHER CERTIFICATE

The Associate Teacher is designed to be the first step towards obtaining entry-level employment in the field of Child Development. The Associate Teacher certificate requires 12 CD units, plus CD Work Experience or the CD Laboratory Class. This Certificate meets California Title V requirements for the Child Development Permit. Call (909) 386-2443 for information.

Required Courses:		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 126	Child, Family and the Community	3
Experience working with children:		4
CD 198	Child Development Work Experience	4
or		
CD 205X2	Child Growth and Development Laboratory	(4)
Total Units:		16

Additional Recommended Courses:

CD 116X4	Pediatric CPR, First Aid and Safety	2
CD 130	Creative Music and Movement for Children	3
CD 134	Language, Listening and Literature for Children	3
CD 136	Creative Art Activities for Children	3
CD 137	Play and Materials for Children	3

Effective: FA 2003

Rationale: To reflect curriculum changes.

INSPECTION TECHNOLOGY CERTIFICATE

Required Courses:		Units
INSPEC 010	Fundamentals of Construction Inspection I	3
INSPEC 011	Fundamentals of Construction Inspection II	3
INSPEC 012	Fundamentals of Construction Inspection III	3
INSPEC 013B	Advanced Construction Inspection: Uniform Building Code	3
INSPEC 014B	Advanced Construction Inspection: National Electrical Code	3
INSPEC 015B	Advanced Construction Inspection: Uniform Plumbing Code	3
INSPEC 016B	Advanced Construction Inspection: Uniform Mechanical Code	3
INSPEC 017B	California State Energy Regulations for Residential Buildings	3
INSPEC 018B	California State Energy Regulation for Non-Residential Buildings	3
INSPEC 024B	Community Relations for Civil Service Employees	3
INSPEC 025B	Communication and Enforcement	3
INSPEC 026B	Non-Structural Plan Review	3
Total Units:		36

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

TEACHER CERTIFICATE

The Teacher certificate is designed to offer the next level of instruction when working with children in a preschool or childcare setting. The certificate focuses on developing age appropriate lesson plans, for the classroom and observation/assessment of children. The Teacher certificate requires 24 CD units, plus CD Work Experience or the CD Laboratory Class, and 16 General Education (GE) units. This Certificate meets California Title V requirements for the Child Development Permit. Call (909) 386-2443 for information.

Required Courses:		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 126	Child, Family and the Community	3
Two courses from the following list:		6
CD 130	Creative Music and Movement for Children	(3)
CD 134	Language, Listening and Literature for Children	(3)
CD 136	Creative Art Activities for Children	(3)
CD 137	Play and Materials for Children	(3)
Two courses from the following list:		6
CD 101	Parent Child Interaction	(3)
CD 133	Creative Science and Math Activities for Children	(3)
CD 138	Cultural Diversity/Anti-Bias Curriculum	(3)
CD 140	Spanish for Child Development	(3)
CD 231	Health and Safety Practices for Children	(3)
CD 232	Nutrition for Young Children	(3)
Experience working with children:		4 - 8
CD 198	Child Development Work Experience	4-8
or		
CD 205X2	Child Growth and Development Laboratory	(4-8)
General Education courses:		16 - 18
Math or Natural Science		
Social and Behavioral Science *SOC 130		
Communication and Learning Skills *ENGL 015 or ENGL 101		
Humanities *ART 103 or MUS 121 or 122		
Electives		
Total Units:		44 - 50

*These courses are recommended selections to meet the GE requirement

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

MASTER TEACHER CERTIFICATE

The Master Teacher certificate is designed to prepare students to supervise, mentor and assist other teachers and aides in a preschool or childcare setting. The Master Teacher certificate requires 24 CD units and 6 specialization units, plus CD Work Experience or the CD Laboratory Class and 16 GE units. This Certificate meets California Title V requirements for the Child Development Permit. Call (909) 386-2443 for information.

Required Courses:

		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 126	Child, Family and the Community	3
CD 270	The Mentor Teacher/Adult Supervision	3

Child Development Specialization:

6

CD 130 and CD 136	Creative Music and Movement for Children Creative Art Activities for Children	3 3
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or

CD 134 and ENGL 155 or ENGL 055	Language, Listening and Literature for Children Children's Literature Children's Literature	3 3 (3)
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or

CD 138 and CD 140	Cultural Diversity/Anti-Bias Curriculum Spanish for Child Development	3 3
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or

CD 160 and CD 161	Understanding School-Age Children Activities for School Age Children	3 3
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or

CD 185 and CD 186	Infant/Toddler Growth and Development Infant/Toddler Activities	3 3
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or

CD 231 and CD 232	Health and Safety Practices for Children Nutrition for Young Children	3 3
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Two courses from the following list:

6

CD 130	Creative Music and Movement for Children	(3)
CD 134	Language, Listening and Literature for Children	(3)
CD 136	Creative Art Activities for Children	(3)
CD 137	Play and Materials for Children	(3)

Continued next page...

MODIFY CERTIFICATES (continued)

MASTER TEACHER CERTIFICATE (continued)

One course from the following list:		3
CD 101	Parent Child Interaction	(3)
CD 133	Creative Science and Math Activities for Children	(3)
CD 138	Cultural Diversity/Anti-Bias Curriculum	(3)
CD 140	Spanish for Child Development	(3)
CD 231	Health and Safety Practices for Children	(3)
CD 232	Nutrition for Young Children	(3)
<i>Experience working with children:</i>		4-8
CD 198	Child Development Work Experience	4-8
or		
CD 205X2	Child Growth and Development Laboratory	(4-8)
<i>General Education courses (16 units required):</i>		16
Communication and Learning Skills *ENGL 015 or ENGL 101		
Social and Behavioral Sciences: *SOC 130		
Humanities *ART 103 or MUS 121 or MUS 122		
Natural Science or Math		
Elective Courses		
	Total Units:	50 - 54

*These courses are recommended selections to meet the GE requirement

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

SITE SUPERVISOR CERTIFICATE

The Site Supervisor certificate is designed to prepare students with the necessary knowledge and skills to be qualified as a Pre-school or Childcare Center Site Supervisor. The Site Supervisor certificate requires an Associate of Arts Degree or 60 units that include 24 Child Development, 6 Administration, and 3 Adult Supervision Units. This Certificate meets California Title V requirements for the Child Development Permit. Call (909) 386-2443 for information.

Required Courses:

		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 126	Child, Family and the Community	3
CD 270	The Mentor Teacher/Adult Supervision	3
CD 271	Administration of Early Childhood Programs	3
CD 272	Advanced Administration of Early Childhood Programs	3

Two courses from the following list: 6

CD 130	Creative Music and Movement for Children	(3)
CD 134	Language, Listening and Literature for Children	(3)
CD 136	Creative Art Activities for Children	(3)
CD 137	Play and Materials for Children	(3)

Two courses from the following list: 6

CD 101	Parent Child Interaction	(3)
CD 133	Creative Science and Math Activities for Children	(3)
CD 138	Cultural Diversity/Anti-Bias Curriculum	(3)
CD 140	Spanish for Child Development	(3)
CD 231	Health and Safety Practices for Children	(3)
CD 232	Nutrition for Young Children	(3)

Experience working with children: 4-8

CD 198	Child Development Work Experience	4-8
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General Education courses: 27

Communication and Learning Skills *ENGL 015 or ENGL 101
Social and Behavioral Sciences: *SOC 130
Humanities *ART 103 or MUS 121 or MUS 122
Natural Science or Math
Elective Courses

Total Units: 64 - 68

*These courses are recommended selections to meet the GE requirement

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

INFANT DEVELOPMENT CERTIFICATE

The Infant Development certificate is similar to the Associate Teacher but specializes in Infant (0-36 months) Care and is designed to prepare students for working with infants, by assisting the Teacher in a childcare or infant care setting. The Infant Development certificate requires 31 CD units, including 4 units of the CD Infant Laboratory Class.

Required Courses:		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 185	Infant/Toddler Growth and Development	3
CD 186	Infant/Toddler Activities	3
CD 126	Child, Family and Community	3
CD 231	Health and Safety Practices for Children	3
CD 232	Nutrition for Young Children	3
One course from the following list:		3
CD 101	Parent-Child Interaction	(3)
CD 136	Creative Art Activities for Children	(3)
CD 137	Play and Materials for Children	(3)
CD 244	Children with Special Needs	(3)
Experience working with children: (Ages birth - 24 months)		4
CD 210X2	Infant Growth and Development Laboratory	4
Total Units:		31

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

PRESCHOOL CERTIFICATE

The Pre-School certificate is similar to the Associate Teacher but specializes in the care of children from 3 – 6 years and prepares students for employment to assist in a pre-school classroom or childcare facility. The Pre-school certificate requires 33 CD units including the CD Laboratory Class.

Required Courses:		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 116X4	Pediatric CPR, First Aid and Safety	2
CD 126	Child, Family and Community	3
Five courses from the following list:		15
CD 101	Parent-Child Interaction	(3)
CD 130	Creative Music and Movement for Children	(3)
CD 133	Creative Science and Math Activities for Children	(3)
CD 134	Language, Listening and Literature for Children	(3)
CD 136	Creative Art Activities	(3)
CD 137	Play and Materials for Children	(3)
CD 138	Cultural Diversity/Anti-Bias Curriculum	(3)
CD 140	Spanish for Child Development	(3)
CD 231	Health and Safety Practices for Children	(3)
CD 232	Nutrition for Young Children	(3)
Experience working with children:		4
CD 205X2	Child Growth and Development Laboratory	4
Total Units:		33

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

SCHOOL AGE CERTIFICATE

The School Age certificate is similar to the Associate Teacher but specializes in the care of children from 6-12 years and prepares students for working in after-school programs or childcare facilities that serve older children. The School Age certificate requires 34 CD units including the CD Work Experience, which requires students to work with school-age children.

Required Courses:		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 160	Understanding School-Age Children	3
CD 161	Activities for School-Age Children	3
CD 126	Child, Family and Community	3
Three courses from the following list:		9
CD 134	Language, Listening and Literature for Children	(3)
CD 137	Play and Materials for Children	(3)
CD 138	Cultural Diversity/Anti-Bias Curriculum	(3)
CD 231	Health and Safety Practices for Children	(3)
CD 232	Nutrition for Young Children	(3)
Experience working with children: (Ages 6-12 years)		4
CD 198	Child Development Work Experience	4
Total Units:		28

Effective: FA 2003

Rationale: To reflect curriculum changes.

MODIFY CERTIFICATES (continued)

FAMILY CHILDCARE PROVIDER CERTIFICATE

The Family Childcare Provider certificate specializes in the care of children in a Family Childcare setting and prepares students for working in Family Childcare or Home Daycare programs and facilities. The Family Childcare certificate requires 22 - 24 CD units including the CD Work Experience, which requires students to work in Family Child Care.

Required Courses:		Units
CD 100	Introduction to Child Development	3
CD 105	Child Growth and Development	3
CD 112	Principles and Practices in Early Childhood	3
CD 116X 4	Pediatric CPR, First Aid and Safety	2
CD 136	Creative Art Activities for Children	3
CD 172	Introduction to Family Child Care	1
CD 173	Family Child Care Business Practices	1
CD 174	Family Child Care Children's Program	1
One course from the following list:		3
CD 161	Activities for School Age Children	(3)
CD 186	Infant/Toddler Activities	(3)
Experience working with children: (in Family Child Care)		2-4
CD 198	Child Development Work Experience	2-4
Total Units:		22- 24
 Additional Recommended Courses:		
CD 231	Health and Safety Practices for Children	3
BUSAD 105	Small Business Management	3

Effective: FA 2003

Rationale: To reflect curriculum changes.