

**Curriculum Instructional Council, September 11, 2003**

**APPROVED**

**Actions Taken**

See Proposal Impact (PI) reports to view list of courses and/or programs that may be impacted by the following proposed actions.

**Administration Of Justice (ADJU )**

<p><b>312 Basic Supervisory Course</b>  <b>2.50 hours lecture, 1.80 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>                  Prerequisite: ADJU 381&amp; ADJU 382&amp; ADJU 383&amp; ADJU 384, each with a grade of "C" or better, or equivalent.</p> <p>(Total of forty-six lecture and thirty-four lab hours.) This course introduces law enforcement supervisors to the duties and responsibilities of the first-line supervisor. Students learn theories of supervision as well as practical skills and techniques. The course consists of lecture, demonstration, breakout groups, and role-playing.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar</p> <p><b>Action(s) Proposed</b></p> <p>Change hours and units.  <i>Approved</i></p> <p>Change course description.  <i>Approved</i></p> <p><b>Proposed For College(s):</b>                  Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Fall 2004</p>
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**Administration Of Justice (ADJU )**

<p><b>323 S.T.C. Certified Corrections Officer Core Course</b>  <b>7.50 hours lecture, 23.60 hours lab, 15.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b> None</p> <p>(Total of one hundred thirty-six lecture and four hundred twenty-six lab hours.) This course provides entry-level training for correctional officers. It exceeds the minimum mandates of the California State Board of Corrections and is designed to introduce the student to the role of corrections in today's society. The course emphasizes facility operations, criminal law, ethics, inmate supervision, defensive tactics, and physical training.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar</p> <p><b>Action(s) Proposed:</b></p> <p>Change hours and units.  <i>Approved</i></p> <p>Change course description.  <i>Approved</i></p> <p><b>Proposed For College(s):</b>                  Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Fall 2004</p>
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### **Anthropology (ANTH )**

<p><b>103 Introduction to Cultural Anthropology</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course presents an overview of cultural anthropology using a comparative, cross-cultural approach. Emphasis is placed on the study of how various peoples around the world have adapted to their environments and developed behaviors to meet their biological, economic, psychological, social and political needs. This course is designed for students planning to take advanced courses in Social and/or Behavioral Sciences or students majoring in Anthropology.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> (CAN ANTH 4, City, Mesa, Miramar)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### **Anthropology (ANTH )**

<p><b>107 Introduction to Archaeology</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is an introductory study of the history and theory of archaeology. Emphasis is placed on the techniques of archaeological data collection and analysis, cultural innovations, reconstruction and interpretation of the past and Cultural Resource Management (CRM) work. This course is designed for students planning to major in Anthropology and/or to conduct upper division work in archaeology at a four-year institution.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> (CAN ANTH 6, City, Mesa, Miramar)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar, City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Alcohol And Other Drug Studies (AODS )

<p><b>152 Physiology and Pharmacology of Psychoactive Drugs</b> 3.00 hours lecture, .00 hours lab, 3.00 units Grade Only</p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent, or W5/R5. Advisory: Completion of or concurrent enrollment in PSYC 101 or SOCO 101 with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for BEHS 152 or PSYC 265: Physiology and Pharmacology of Psychoactive Drugs</p> <p>This course is a study of the neurochemical, physical and mental effects of commonly used addictive psychoactive substances on the human biological system. Emphasis is placed on the basic pharmacology of psychoactive drugs, the medical consequences of abuse and addiction, and therapeutic approaches for managing chemical dependency.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Change advisory. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Alcohol And Other Drug Studies (AODS )

<p><b>160 Group Dynamics in Chemical Dependency Counseling</b> 3.00 hours lecture, .00 hours lab, 3.00 units Grade Only</p> <p><b>REQUISITES:</b> Advisory: AODS 150 &amp; AODS 152 &amp; AODS 154 &amp; PSYC 161 &amp; SOCO 101, each with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for BEHS 160</p> <p>This course is a study of the theory and application of group counseling approaches, methods and techniques with an emphasis on chemical dependency problems. Course content includes the dynamics of small group interaction and allows students to develop effective communication, interpersonal and leadership skills from an interdisciplinary perspective. This course is designed for students majoring in Behavioral Sciences.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Aviation (AVIA )

<p><b>105 Introduction to Aviation and Aerospace</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051&amp; ENGL 056&amp; MATH 032, each with a grade of "C" or better, or equivalent.</p> <p>Students learn about the development of aviation and space flight. Topics include the effect of research and development on the aviation and aerospace industry, the evolution of modern aircraft, aircraft design in the future, and flight physiology. Students also learn about careers in aviation and aerospace.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar</p> <p><b>Action(s) Proposed:</b></p> <p>Add advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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### Aviation (AVIA )

<p><b>130 Aviation Weather and Physiology</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051&amp; ENGL 056&amp; MATH 032, each with a grade of "C" or better, or equivalent.</p> <p>Students learn about meteorology and physiology as they apply to private, instrument, and commercial pilots and flight instructors. Specific topics include weather theory, the effects of weather on aircraft, and the collection, dissemination, interpretation, and use of weather data. Students also learn about the physiological aspects and hazards of flight including the effects of reduced oxygen, motion, drugs, alcohol, and stress on the body.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar</p> <p><b>Action(s) Proposed:</b></p> <p>Add advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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## Aviation (AVIA )

<p><b>210 Instrument Rating Instruction</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: AVIA 140 Private Pilot Certificate satisfies the AVIA 140 advisory and ENGL 051 and ENGL 056 and MATH 032, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>This course provides aeronautical knowledge for the Instrument Rating. Students learn about applicable Federal Aviation Regulations, basic instrument flight, electronic aids to navigation, the National Airspace System, navigation charts, air traffic control procedures, Instrument Flight Rules (IFR) flight procedures, and flight planning. This course in conjunction with AVIA 130 prepares students for the Federal Aviation Administration (FAA) Instrument Rating written examination.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar</p> <p><b>Action(s) Proposed:</b> Change advisory. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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## Biology (BIOL )

<p><b>101 Issues in Environmental Biology</b> <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Prerequisite: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5. Limitation on Enrollment: This course is not open to students with previous credit for Biology 100.</p> <p>This is a course in contemporary issues in environmental biology. Topics include basic ecological principles, biodiversity, human population dynamics, human resource management, and pollution. These are viewed within the context of their environmental, economic, cultural, and ethical setting. Issues are examined utilizing the process of scientific inquiry. The laboratory is coordinated with lectures, and emphasizes the environmental issues of Southern California. Several field trips will be required, some on the weekend.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Integrate outline. <i>Approved</i> Propose for IGETC, Area 5, <i>Physical and Biological Sciences - Biological Science Lab Course. Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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## Biology (BIOL )

<p><b>180 Plants and People</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This is an introductory course that examines the interdependence of humans and plants. This course is intended for all that want to learn about the uses of plants, especially those students with an interest in biology, anthropology, environmental sciences, and/or agriculture. Emphasis is on plant ecology as well as the basic biology of plant groups that provide us with food, medicine, recreation, decoration, and material goods as well as those that produce stimulating, intoxicating, or harmful effects. Basic principles of taxonomy, cell structure, plant physiology, plant anatomy, ecology and genetics are explored as they relate to these plants. Current environmental and economic issues and the role of molecular genetics in future plant development and the importance of genetic diversity are also examined.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Activate at Mesa. <i>Approved</i></p> <p>Propose for CSU GE, Area B2, <i>Physical Universe and its Life Forms – Biological Science Courses</i> and Area B3, <i>Physical Universe and its Life Forms – Laboratory Activity.* Approved</i></p> <p>Propose for IGETC, Area 5, <i>Physical and Biological Sciences – Biological Science Courses.* Approved</i></p> <p>Propose for UC Transfer List.* <i>Approved</i></p> <p><b>*Already approved for City. Propose now for Mesa.</b></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2004</p>
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## Black Studies (BLAS )

<p><b>104 Black Psychology</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 or ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is an introduction to psychological concepts and principles as they relate to African American behaviors and lifestyles. Emphasis is placed on comparing Euro-American theories as they have been traditionally applied to African Americans with contemporary Afro-centric theories and the ways in which they may be applied to create a greater understanding of the behaviors, lifestyles and psychological needs of African Americans.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education;</p>	<p><b>Offered At:</b> City, Mesa</p> <p><b>Action(s) Proposed:</b></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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<p>IGETC UC Transfer Course List :Black Studies (BLAS) 104 combined with Psychology (PSYC) 101: maximum credit, one course.</p> <p><b>CAN DATA:</b> None</p>	
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**Black Studies (BLAS )**

<p><b>115 Sociology from a Black Perspective</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 or ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is a study of African American society and culture. Emphasis is placed on analyzing the origins, nature, structure and dynamics of African American life from a systemic perspective.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List :Black Studies (BLAS) 115 and Sociology (SOCO) 101 combined: maximum credit, one course.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i>  Propose for IGETC, Area 4, <i>Social and Behavioral Studies – Ethnic Studies. Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Black Studies (BLAS )**

<p><b>120 Black Music</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is a study of African American musical forms and styles in historical perspective. Emphasis is placed on providing students with an understanding and appreciation for the African roots of a variety of African American music genres.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa</p> <p><b>Action(s) Proposed</b>  Change advisory. <i>Approved</i>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Black Studies (BLAS )**

<p><b>130 The Black Family</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 or ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is a study of the African American family. Emphasis is placed on the socio-cultural and psychological issues surrounding the history of the Black family in America and contemporary African American dating, marriage and divorce patterns, gender roles and extended family, kin and community networks.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa</p> <p><b>Action(s) Proposed:</b>          Change course description. <i>Approved</i>          Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b>          Mesa, City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Black Studies (BLAS )**

<p><b>145B Introduction to African History</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is a survey of African History from the late nineteenth century to the present. Emphasis is placed on providing students with a broad presentation of European colonization and colonial rule, African independence movements, nation-building, economic development and the continuing quest for African unity.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>          Change advisory. <i>Approved</i>          Change course description. <i>Approved</i>          Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### **Black Studies (BLAS )**

<p><b>155 Afro-American Literature</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 or ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is a survey of African American cultural expression through language and literature in historical perspective. Emphasis is placed on understanding and interpreting the cultural, ethnic and political dynamics that influence literary, musical and theoretical texts. Topics include African praise songs, slave narratives, African American folktales, poetry, lyrics, spirituals, raps, short stories, novels, speeches and essays.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa</p> <p><b>Action(s) Proposed:</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### **Business (BUSE )**

<p><b>100 Introduction to Business</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 043 and ENGL 042; or BUSE 092, each with a grade of "C" or better, or equivalent, or W4/R4.</p> <p>This is an introductory course for both business and non-business majors. The course provides a broad understanding of the business community, its functions, terminology, occupational choices in the various fields of business and the place of business in the American economy as a whole.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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### Business (BUSE )

<p><b>119 Business Communications</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056; or BUSE 092, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>Students learn the principles of effective business communications. Students also learn about the broad development of the ability to analyze, organize, and compose various types of written and oral business communications. Students learn to develop clear, concise, and persuasive letters, memorandums, and reports. This course is well-suited for transfer students planning to major in business.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa, City, Miramar</p> <p><b>Action(s) Proposed</b> Change course description.** Integrate outline.**</p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p> <p><b>**Returned for revisions.</b></p>
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### Business (BUSE )

<p><b>140 Business Law and the Legal Environment</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056; or BUSE 092, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course introduces students to the legal system and the laws that govern business in America. The course also increases students' understanding of legal concepts. Topics include judicial and administrative systems, ethics, contracts, torts, bankruptcy, agency, business organizations, security regulations, regulation of property, and protection of intellectual property interest.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. UC Transfer Course List: Business (BUSE) 140 and 141 combined: maximum credit, one course.</p> <p><b>CAN DATA:</b> (CAN BUS 8, City, Mesa, Miramar)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Add advisory. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar, City</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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## Chemistry (CHEM )

<p><b>130 Introduction to Organic and Biological Chemistry</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Prerequisite: CHEM 100&amp; CHEM 100L, each with a grade of "C" or better, or equivalent. Corequisite: CHEM 130L.</p> <p>Chemistry 130 is a one-semester course that introduces the basic physical, chemical and structural features of organic and biological compounds. Topics such as bonding, saturated and unsaturated hydrocarbons, the chemistry of organic functional groups, and the properties of important biological compounds such as carbohydrates, fats, and proteins are covered. The importance of these compounds in our daily lives is emphasized. The course is designed for nursing, nutrition, and allied health majors.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List :Chemistry (CHEM) 130, 130L and 231, 231L combined: maximum credit, one course (with lab).</p> <p><b>CAN DATA:</b> (CAN CHEM, SEQ B, City, Mesa) (CAN CHEM 8, City, Mesa)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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## Child Development (CHIL )

<p><b>152 School Age Program Planning</b> <b>3.00 hours lecture, .00 hours lab, 3.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and CHIL 101 &amp; MATH 210A &amp; MATH 210B &amp; MUSI 110 &amp; PHYE 047, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is a practical study of school age program planning. Emphasis is placed on the details of planning a school age child development center, curriculum development, staff training and child guidance, health and safety. This course is designed for students planning to work with school age children in community settings. This course may be used to partially fulfill State of California Child Development Permit Requirements and Title 21 teaching requirements.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa</p> <p><b>Action(s) Proposed:</b> Change advisory. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline.</p> <p><b>Proposed For College(s):</b> Mesa, City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Child Development (CHIL )

<p><b>180 Nutrition, Health and Safety for Children</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 043 and ENGL 042 with a grade of "C" or better, or equivalent, or W4/R4.</p> <p>This course provides students and child development professionals with a survey of the nutritional, health, and safety needs of children from infant/toddlers through preschool age. Topics may include, but are not limited to, the planning and execution of environments and activities that promote safety, balanced diet, and overall health for children. Students also learn the fundamentals of pediatric first aid and cardiopulmonary resuscitation (CPR). This course also meets the Title XXII, fifteen hour, Health and Safety Training requirement, including signs and symptoms of child abuse.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed</b></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar, City</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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### Construction Systems (CONS )

<p><b>*071A Construction Systems - Intermediate Low Voltage Building Systems I</b>  <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Prerequisite: CONS 070B with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for CEST 302A.</p> <p>This course provides the Construction Systems - Low Voltage Building Systems student with instruction in mathematics related to the trade, electronic theory, electronic measurement tools and techniques, AC and DC electrical systems and grounding, and blueprint reading related to the trade.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> None</p> <p><b>Action(s) Proposed:</b></p> <p>New course. <i>Approved</i></p> <p>Prerequisite. <i>Approved</i></p> <p>Limitation on enrollment. <i>Approved</i></p> <p>Distance education. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Construction Systems (CONS )

<p><b>*071B Construction Systems - Intermediate Low Voltage Building Systems II</b> <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Prerequisite: CONS 071A with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for CEST 302B .</p> <p>This course provides the Construction Systems - Low Voltage Building Systems student with instruction in types of cabling, switches and relays, terminating conductors, low-voltage codes and standards, and computer cabling applications.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> None</p> <p><b>Action(s) Proposed:</b> New course. <i>Approved</i> Prerequisite. <i>Approved</i> Limitation on enrollment. <i>Approved</i> Distance education. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Construction Systems (CONS )

<p><b>*072A Construction Systems - Advanced Low Voltage Building Systems I</b> <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Prerequisite: CONS 071B with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for CEST 303A .</p> <p>This course provides the Construction Systems - Low Voltage Building Systems student with instruction in wire and cable selection, advanced buses and networks, fiber optic installation, cable and satellite television systems, and wireless communications.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> None</p> <p><b>Action(s) Proposed:</b> New course. <i>Approved</i> Prerequisite. <i>Approved</i> Limitation on enrollment. <i>Approved</i> Distance education. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Construction Systems (CONS )

<p><b>*072B Construction Systems - Advanced Low Voltage Building Systems II</b>  <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Prerequisite: CONS 072A with a grade of "C" or better, or equivalent.  Limitation on Enrollment: This course is not open to students with previous credit for CEST 303B .</p> <p>This course provides the Construction Systems - Low Voltage Building Systems student with instruction in site survey, job planning and documentation, maintenance and repair, supervision, and fire and security alarm systems.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> None</p> <p><b>Action(s) Proposed:</b></p> <p>New course. <i>Approved</i></p> <p>Prerequisite. <i>Approved</i></p> <p>Limitation on enrollment. <i>Approved</i></p> <p>Distance education. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Dance (DANC )

<p><b>*115 Tap</b>  <b>.00 hours lecture, 2.00 - 3.00 hours lab, .50 - 1.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>Tap is an introductory course which explores a variety of tap dance styles. Emphasis is on the development of balance, ankle articulation, timing and clarity of sound in the performance of basic tap vocabulary. Rhythm studies include musical phrasing, dynamics, body placement, and improvisation. This course is designed for dance and theater majors as well as students interested in exercise and aerobic experience. This course may be taken four times for credit. Students must demonstrate increased proficiency and skill attainment with each repetition. When this course is offered for three hours a week the additional time is utilized in the practice and perfection of rhythmic and sound clarity.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b></p> <p>New course. <i>Approved</i></p> <p>Advisory. <i>Approved</i></p> <p>Repeatability. <i>Approved</i></p> <p>Propose for UC Transfer List. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2004</p>
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### Diesel Technology (DIES )

<p><b>*125A Advanced Diesel Engines I</b> <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Prerequisite: DIES 125 with a grade of "C" or better, or equivalent. Corequisite: Completion of or concurrent enrollment in DIES 100 with a grade of "C" or better, or equivalent.</p> <p>This is an advanced course in theory and laboratory practice of evaluation and rebuilding of two stroke cycle diesel engines. The independent performance of each student is emphasized during the evaluation and reconditioning of the basic engine and the engine lubricating, cooking, air, and exhaust systems.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar</p> <p><b>Action(s) Proposed:</b> Deactivate at Miramar. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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### Electricity (ELCT )

<p><b>190 Electric Lineman 1A</b> <b>5.00 hours lecture, .00 hours lab, 5.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051and ENGL 056and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40. Limitation on Enrollment: This course is not open to students with previous credit for SDGE 302 .</p> <p>This course provides an orientation in the power distribution and line construction industry. Basic electrical principles and safety on the job are emphasized. Topics include basic mathematical computations, including trigonometry fundamentals, electron theory and the fundamentals of magnetism. Students will combine electrical theory with laboratory and practical applications in the course of study.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b> Add advisory. <i>Approved</i> Add limitation on enrollment. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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### Electricity (ELCT )

<p><b>191 Electric Lineman 1B</b> 5.00 hours lecture, .00 hours lab, 5.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Prerequisite: ELCT 190 with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for SDGE 304 .</p> <p>This course involves the study of the power distribution and line construction industry. Topics include methods of producing electricity, A.C. and D.C. meters and circuitry and electric batteries. Students will also learn about Ohm's Law and Kirchhoff's Law and electromagnetic induction.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Add prerequisite. <i>Approved</i></p> <p>Add limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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### Electricity (ELCT )

<p><b>192 Electric Lineman IIA</b> 5.00 hours lecture, .00 hours lab, 5.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Prerequisite: ELCT 191 with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for SDGE 310 .</p> <p>This course is a study of alternating current circuits, A.C. and D.C. motors and generators, pole and overhead construction, and transformers and voltage regulators. Topics include schematics, shunt and series capacitors and safety issues outlined by the Occupational Safety and Health Act (OSHA). Calculating power used by electrical circuits is also covered.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Add prerequisite. <i>Approved</i></p> <p>Add limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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### Electricity (ELCT )

<p><b>193 Electric Lineman IIB</b> 5.00 hours lecture, .00 hours lab, 5.00 units Grade Only</p> <p><b>REQUISITES:</b> Prerequisite: ELCT 192 with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for SDGE 312 .</p> <p>This course is a continuation of pole and overhead line construction. Topics covered include state safety orders for line construction and maintenance, transmission and distribution systems and conductors and electrical systems faults. Students will also learn about short circuits, system protective concepts and how to identify control circuits from wiring diagrams.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Add prerequisite. <i>Approved</i></p> <p>Add limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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### Electricity (ELCT )

<p><b>194 Electric Lineman IIIA</b> 5.00 hours lecture, .00 hours lab, 5.00 units Grade Only</p> <p><b>REQUISITES:</b> Prerequisite: ELCT 193 with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for SDGE 320 .</p> <p>This course covers advanced theory of electrical distribution lines and systems. Other topics include phasing, system groundings, substations and the use of electrical instruments. Students will also learn how to connect transformers in accordance with the state code. Usage of fusing tables and reference tables, including technical symbols are also covered.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Add prerequisite. <i>Approved</i></p> <p>Add limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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## Electricity (ELCT )

<p><b>195 Electric Lineman IIIB</b> <b>5.00 hours lecture, .00 hours lab, 5.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Prerequisite: ELCT 194 with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for SDGE 322 .</p> <p>This course is a continuation of advanced theory of electrical distribution lines and systems. Topics include the use of "hot sticks" and special equipment; repair and maintenance of poles and lines both cold and energized, safety practices and the local/state requirements. Students will be expected to master competencies such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Add prerequisite. <i>Approved</i></p> <p>Add limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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## Engineering (ENGE )

<p><b>*101 Introduction to Engineering</b> <b>1.50 hours lecture, .00 hours lab, 1.50 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: This course is not open to students with previous credit for Engineering 265B: Introduction to Engineering .</p> <p>This course is an introduction to engineering in the work environment, including familiarization with the different occupations of engineering. Emphasis is placed on engineering requirements, analysis, design, implementation and testing of actual engineering problems. Students learn the proper use of engineering tools including computers, statistics and computer simulations. This course is designed to help students decide whether to embark on an engineering or technical career.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>New course. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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## Humanities (HUMA )

<p><b>101 Introduction to the Humanities I</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This interdisciplinary course develops students' understanding and appreciation of humankind's cultural heritage from the earliest time to approximately 1400. A survey is made of the literature, philosophy, music, painting, architecture, and sculpture of both Western and non-Western civilizations.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b>          Change course description. <i>Approved</i>          Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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## Machine Technology (MACT )

<p><b>151 Introduction to CNC Verification and Communication</b>  <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 043 and ENGL 042 and MATH 095, each with a grade of "C" or better, or equivalent, or W4/R4/M40.</p> <p>This course is a study of CNC program verification and communication with an emphasis on solid modeling. This course is designed for students majoring in the machine technology and/or engineering fields.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>          Change course title. <i>Approved</i>          Add advisory. <i>Approved</i>          Change course description. <i>Approved</i>          Change transfer credit. <i>Approved</i>          Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Machine Technology (MACT )

<p><b>*160M Introduction to CAD/CAM</b> <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40. Advisory: Concurrent enrollment in MACT 161M.</p> <p>This course is an introductory, hands-on study of Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs at a basic level for both the Computer Numerical Control (CNC) Mill and CNC Lathe.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b> New course. <i>Approved</i> Advisory. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Machine Technology (MACT )

<p><b>*160S Introduction to CAD/CAM</b> <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40. Advisory: Concurrent enrollment in MACT 161S.</p> <p>This course is an introductory, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Surfcam software. Emphasis is placed on generating programs at a basic level for both the Computer Numerical Control (CNC) Mill and CNC Lathe.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> New course. <i>Approved</i> Advisory. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Machine Technology (MACT )

<p><b>*161M Applications of CAD/CAM I</b> .00 hours lecture, 6.00 hours lab, 2.00 units Grade Only</p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40. Advisory: Completion of or concurrent enrollment in MACT 160M with a grade of "C" or better, or equivalent.</p> <p>This course presents students with intermediate-level Computer Aided Design/Computer Aided Manufacturing CAD/CAM projects dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Mastercam software. Students at this level work under moderate instructor supervision to increase efficiency and quality of work. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b> New course. <i>Approved</i> Advisory. <i>Approved</i> Repeatability. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Machine Technology (MACT )

<p><b>*161S Applications of CAD/CAM I</b> .00 hours lecture, 6.00 hours lab, 2.00 units Grade Only</p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40. Advisory: Concurrent enrollment in MACT 160S.</p> <p>This course presents students with intermediate-level Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) projects dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Surfcam software. Students at this level work under moderate instructor supervision to increase efficiency and quality of work. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> New course. <i>Approved</i> Advisory. <i>Approved</i> Repeatability. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Machine Technology (MACT )**

<p><b>*162M Applications of CAD/CAM II</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Advisory: Completion of or concurrent enrollment in MACT 161M with a grade of "C" or better, or equivalent.</p> <p>This course presents students with advanced-level Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) exercises dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Mastercam. Students at this level work with minimal instructor supervision to increase efficiency and quality of work. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b>          New course. <i>Approved</i></p> <p>Advisory. <i>Approved</i></p> <p>Repeatability.  <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Machine Technology (MACT )**

<p><b>*162S Applications of CAD/CAM II</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Advisory: Completion of or concurrent enrollment in MACT 161S with a grade of "C" or better, or equivalent.</p> <p>This course presents students with advanced-level Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) exercises dealing with Computer Numerical Control (CNC) program generation for the CNC Mill and CNC Lathe using Surfcam software. Students at this level work with minimal instructor supervision to increase efficiency and quality of work. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>          New course. <i>Approved</i></p> <p>Advisory. <i>Approved</i></p> <p>Repeatability. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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<b>CAN DATA:</b> None	
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**Machine Technology (MACT )**

<p><b>170 Introduction to CNC Controlled Vertical Machining</b>  <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051and ENGL 056and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Advisory: Completion of or concurrent enrollment in MACT 150 with a grade of "C" or better, or equivalent.</p> <p>This course is an introductory, hands-on study Computer Numerical Control (CNC) Vertical Machining theory and techniques. Emphasis is placed on Vertical Machining basic operations and Electrical Discharge Machining (EDM).</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Add advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Change transfer status. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Machine Technology (MACT )**

<p><b>171 Application of CNC Controlled Vertical and Electrical Discharge Machining (EDM) I</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051and ENGL 056and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Advisory: Completion of or concurrent enrollment in MACT 170 with a grade of "C" or better, or equivalent.</p> <p>This laboratory course provides exercises in Computer Numerical Control (CNC) Vertical Machining techniques and Electrical Discharge Machining (EDM) at an intermediate level. Students at this level work under moderate instructor supervision to increase efficiency and quality of work. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Add advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Change transfer status. <i>Approved</i></p> <p>Add repeatability. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p>
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to CSU and private colleges and universities.  <b>CAN DATA:</b> None	<b>Effective:</b> Spring 2004
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### Machine Technology (MACT )

<p><b>172 Application of CNC Controlled Vertical Machining and Electrical Discharge Machining (EDM) II</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.  Advisory: Completion of or concurrent enrollment in MACT 171 with a grade of "C" or better, or equivalent.</p> <p>This laboratory course provides exercises in Computer Numerical Control (CNC) Vertical Machining techniques and Electrical Discharge Machining (EDM) at an advanced level. Students at this level work under minimal instructor supervision to increase efficiency and quality of work. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course title. <i>Approved</i>  Add advisory. <i>Approved</i>  Change course description. <i>Approved</i>  Change transfer status. <i>Approved</i>  Add repeatability. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Machine Technology (MACT )

<p><b>*180M Advanced CAD/CAM</b>  <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.  Advisory: Completion of or concurrent enrollment in and MACT 160M with a grade of "C" or better, or equivalent.</p> <p>This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced modeling surface techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at a beginning level under direct instructor supervision.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b>  New course. <i>Approved</i>  Advisory. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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<p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	
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**Machine Technology (MACT )**

<p><b>*180S Advanced CAD/CAM</b>  <b>3.00 hours lecture, 3.00 hours lab, 4.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: and ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Advisory: Completion of or concurrent enrollment in and MACT 160S with a grade of "C" or better, or equivalent.</p> <p>This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Surfcam software. Emphasis is placed on generating programs using advanced surface modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at a beginning level under direct instructor supervision.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>          New course. <i>Approved</i>          Advisory. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Machine Technology (MACT )**

<p><b>*181M Application in Advanced CAD/CAM I</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Advisory: Completion of or concurrent enrollment in MACT 180M with a grade of "C" or better, or equivalent.</p> <p>This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an intermediate level under moderate instructor supervision. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b>          New course. <i>Approved</i>          Advisory. <i>Approved</i>  <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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<p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	
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### Machine Technology (MACT )

<p><b>*181S Application in Advanced CAD/CAM I</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.  Advisory: Completion of or concurrent enrollment in MACT 180S with a grade of "C" or better, or equivalent.</p> <p>This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Surfcam software. Emphasis is placed on generating programs using advanced modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an intermediate level under moderate instructor supervision. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  New course. <i>Approved</i>  Advisory. <i>Approved</i>  Repeatability. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Machine Technology (MACT )

<p><b>*182M Application in Advanced CAD/CAM II</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.  Advisory: Completion of or concurrent enrollment in MACT 181M with a grade of "C" or better, or equivalent.</p> <p>This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Mastercam software. Emphasis is placed on generating programs using advanced surface modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an advanced level under minimal instructor supervision. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b>  New course. <i>Approved</i>  Advisory. <i>Approved</i>  Repeatability. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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<p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	
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### Machine Technology (MACT )

<p><b>*182S Advanced CAD/CAM II</b>  <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.  Advisory: Completion of or concurrent enrollment in MACT 181S with a grade of "C" or better, or equivalent.</p> <p>This course is an advanced, hands-on study of Computer Aided Design / Computer Aided Manufacturing (CAD/CAM) theory and applications using Surfcam software. Emphasis is placed on generating programs using advanced surface modeling techniques for both the Computer Numerical Control (CNC) Mill and CNC Lathe at an advanced level under minimal instructor supervision. This course may be taken four times to enhance skills or proficiencies by supervised repetition and practice within class periods.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  New course. <i>Approved</i>  Advisory. <i>Approved</i>  Repeatability. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Mathematics (MATH )

<p><b>254 Introduction to Linear Algebra</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Prerequisite: MATH 151 with a grade of "C" or better, or equivalent.</p> <p>This course serves as an introduction to the theory and applications of elementary linear algebra, and is the basis for most upper division courses in mathematics. The topics covered in this course include matrix algebra, Gaussian Elimination, systems of equations, determinants, Euclidean and general vector spaces, linear transformations, orthogonality and inner product spaces, bases of vector spaces, the change of basis theorem, eigenvalues and eigenvectors, the rank and nullity of matrices and of linear transformations. This course</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar, City</p> <p><b>Originating Campus:</b> City</p>
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<p>is intended for the transfer student planning to major in mathematics, physics, engineering, computer science, operational research, economics, or other sciences.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> (CAN MATH 26, City, Mesa, Miramar)</p>	<p><b>Dist. Ed Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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### Music (MUSI )

<p><b>111 Jazz - History and Development</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is a survey of the history and development of jazz in the United States. Emphasis is placed on the origins of jazz, the variety of styles that developed throughout the twentieth century, current trends and outstanding performers and composers. .</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b></p> <p>Change course title. <i>Approved</i></p> <p>Change course description. <i>Approved with modification (shown in <del>strikeout</del> print).</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Music (MUSI )

<p><b>205A Projects in Electronic Music</b>  <b>2.50 hours lecture, 1.50 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Prerequisite: MUSI 190 with a grade of "C" or better, or equivalent.  Advisory: MUSI 201 or MUSI 202, each with a grade of "C" or better, or equivalent.</p> <p>In this course, students create a portfolio of music recordings and/or productions in an electronic music studio. Assigned projects incorporate composition, arranging, engineering, and production applications in a variety of media environments. Students analyze the nature of sound, sound production, sound enhancement, and the resulting music created.</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b></p> <p>Change advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p>Activate at Miramar. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p>
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<p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2004</p>
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### Nursing Education (NRSE )

<p><b>*270 Occupational Work Experience in Nursing Education</b>  <b>.00 hours lecture, .00 hours lab, 1.00-4.00 units</b>  <b>Credit/No Credit Only</b></p> <p><b>REQUISITES:</b>  Prerequisite: NRSE 101&amp; NRSE 102&amp; NRSE 103&amp; NRSE 104&amp; NRSE 105&amp; NRSE 107, each with a grade of "C" or better, or equivalent.  Limitation on Enrollment: To receive credit a student must complete a minimum of seven units during the semester, including work experience.</p> <p>A work-experience course authorized by the Board of Registered Nursing whereby a student is employed by or volunteers at a clinical site with which the Nursing Education Program has a current affiliation agreement. The clinical site supports the objectives of the course and provides direct supervision of students through RN mentors and preceptors. The student applies previously learned nursing theory and clinical skills to the performance of client care. The combined maximum credit for all work experience courses from all disciplines may not exceed 16 units.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b>  New course. <i>Approved</i>  Prerequisite. <i>Approved</i>  Limitation on enrollment. <i>Approved</i>  Repeatability. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Physical Education (PHYE )

<p><b>153 Lifelong Fitness Lab</b>  <b>.00 hours lecture, 2.00 - 3.00 hours lab, .50 - 1.00 units</b>  <b>Credit/No Credit Only</b></p> <p><b>REQUISITES:</b> None</p> <p>This course is designed to provide students with the knowledge and practice to develop the attitudes and habits required for attaining and maintaining appropriate, individual physical fitness levels. Emphasis is placed on developing and maintaining cardiovascular efficiency as well as muscular strength, endurance and flexibility through circuit and/or strength training.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p>
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<p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Effective:</b> Spring 2004</p>
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### Physics (PHYS )

<p><b>121A General Physics Lab</b>  <b>.00 hours lecture, 3.00 hours lab, 1.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Corequisite: PHYS 120A&amp; PHYS 125A.</p> <p>This laboratory course is designed to accompany Physics 120A. Emphasis is placed on illustrating the properties of matter, mechanics, heat and sound through laboratory experiments. (CAN PHYS 2 when taken with Physics 120A) (CAN PHYS SEQ A = PHYS 120A+121A+120B+121B.)</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List :Physics (PHYS) 120A,B, 121A,B and 124A,B and 195A,B,C combined: maximum credit, one series (per catalog) deduct credit for duplication of topics.</p> <p><b>CAN DATA:</b> (CAN PHYS, SEQ A, City) (CAN PHYS 2, City)</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Change course description.  <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Physics (PHYS )

<p><b>121B General Physics Lab</b>  <b>.00 hours lecture, 3.00 hours lab, 1.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Prerequisite: PHYS 120A with a grade of "C" or better, or equivalent.  Corequisite: PHYS 120B&amp; PHYS 125B.</p> <p>This laboratory course is designed to accompany Physics 120B. Emphasis is placed on illustrating the principles of electricity, magnetism, light and modern physics through laboratory experiments. (CAN PHYS 4 when taken with Physics 120B) (CAN PHYS SEQ A = PHYS 120A+121A+120B+121B.)</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List :Physics (PHYS) 120A,B, 121A,B and</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change course description.  <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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124A,B and 195A,B,C combined: maximum credit, one series (per catalog) deduct credit for duplication of topics.  <b>CAN DATA:</b> (CAN PHYS, SEQ A, City) (CAN PHYS 4, City)	
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**Pipefitting (County Pipetrades) (PIPF )**

<p><b>304 Heating I, Steam</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course provides an introduction to hot water steam heating, gravity hot water systems, forced hot water heating systems, problems caused by air in the systems, hot water piping connections, and installation of equipment safety devices for hot water boilers.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Remove advisory. <i>Approved</i>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Pipefitting (County Pipetrades) (PIPF )**

<p><b>308 Pneumatic Controls</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course is a review of the fundamentals of pneumatics, controllers, controlled devices and auxiliary devices. The course also covers day-night and heat-cooling thermostats, ventilation, heating, and cooling controls, humidity control, year-round air conditioning, and master-submaster systems.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Remove advisory. <i>Approved</i>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Pipefitting (County Pipetrades) (PIPF )

<p><b>310 Refrigeration and Air Conditioning</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course covers refrigeration and air conditioning systems. Upon successful completion of the course, the student will be able to identify components in refrigeration and air conditioning systems, demonstrate knowledge of the theories of electricity relevant to the trade, explain the operation of evaporative condensers, perform maintenance on refrigeration systems, and diagram pipe and line layout and installation in a refrigeration system.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Remove advisory. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Pipefitting (County Pipetrades) (PIPF )

<p><b>314 Heating II Hydronics</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This Hydronics course introduces the technical aspects of the design, calculation and installation of hydronics heating and cooling systems. Students examine residential, commercial, institutional and industrial hydronics applications.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Remove advisory. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Pipefitting (County Pipetrades) (PIPF )

<p><b>318 Fitting Fabrication</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course provides the student with basic pipefitting skills; taking accurate measurements, cutting pipe and calculating fitting "take off". Topics include the difference between screw and welded pipe and their uses; proper and safe use of copper and plastic pipe as well as pipe hangers and supports. Students learn to apply pipe layout and fitting fabrication principles/procedures for elbows, tees and laterals used in the industrial piping industry. The student learns to use welding experience and mathematics to design, lay out and fabricate fittings used in the pipefitting trade.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Remove advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Pipefitting (County Pipetrades) (PIPF )

<p><b>320 TIG Welding</b> 1.50 hours lecture, 1.50 hours lab, 2.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course is designed to provide the apprentice with a working knowledge of the welding process known as TIG (Tungsten Inert Gas)/GTAW (gas tungsten arc welding). Students learn the fundamentals, the process, equipment, techniques, preparation, shielding gas and electrodes. Guided bend testing and quality weld inspection are also covered. Emphasis is on performing TIG/GTAW welding in a safe manner.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change course title. <i>Approved</i></p> <p>Remove advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Pipefitting (County Pipetrades) (PIPF )**

<p><b>322 Instrumentation and Automated Systems</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course introduces the operation, installation and testing of instruments and automated systems. Upon completion, the apprentice will be able to describe and use pressure measuring instruments, liquid level instruments, density measuring instruments, temperature and humidity measuring instruments, speed and position transmitters, automatic force balance controllers, pneumatic control valves, control valve accessories and instrumentation systems.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Remove advisory. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Pipefitting (County Pipetrades) (PIPF )**

<p><b>324 Pipe Drafting and Blueprint Reading</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course is an introduction to blueprint reading and drafting pertaining to domestic water systems and piping layout. Upon successful completion, the student will be prepared to use drawing tools and appropriate pipefitting diagrams to draw waste vent systems and to diagram water and gas lines using mock-ups.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Remove advisory. <i>Approved</i></p> <p>Change grading option. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Pipefitting (County Pipetrades) (PIPF )**

<p><b>326 Advanced Piping Mathematics</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>Advanced Piping Mathematics is designed to introduce and develop the applied piping and calculating skills necessary in the piping industry. Topics include the application of trigonometry, offset problems, and pipe and tube bending mathematics.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Remove advisory. <i>Approved</i></p> <p>Change grading option. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Pipefitting (County Pipetrades) (PIPF )**

<p><b>328 Pipefitters Code</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course reviews the fundamentals of pipefitting. Topics include isometric drawing interpretation, tools and tool safety, hydronics, plan reading, and trigonometry tables. The foundations of hydraulics, pneumatics, refrigeration, arc welding and rigging are introduced and explored.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Remove advisory. <i>Approved</i></p> <p>Change grading option. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Pipefitting (County Pipetrades) (PIPF )**

<p><b>330 Pipefitting Certification</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Credit/No Credit Only</b></p> <p><b>REQUISITES:</b>          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Change course description. <i>Approved</i></p>
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<p>This course covers the application of the most current codes and state regulations governing piping, mechanical installations and excavating operations. Upon completion, the apprentice will be prepared to take the Journeyman P.I.P.E. exam and Cal/OSHA Excavation Competent Person exam.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Not required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>301 Pipe Trades Orientation</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course introduces the fundamentals of the pipe trades. Upon completion students will be familiar with OSHA regulations, tool safety, first-aid and prevention, proper use and care of tools, workplace habits and attitudes, business practices and employer-employee relationships as they apply to the pipefitting trades.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change course description.  <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>303 Piping Mathematics</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course introduces Piping Mathematics and its practical application to the trade. Topics include basic math, piping formulas, symbols and terms, and the metric system of measurement. Content is explored and developed through problem solving.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Change course description.  <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p>
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<p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>305 Pipe Bending and Rigging</b>  <b>1.50 hours lecture, 1.50 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course introduces pipe bending and rigging principles as they apply to plumbing jobs. Pipe Bending topics include principles, mathematics, and methods of pipe bending. Rigging hardware, slings, signal systems, and knot tying are a sampling of the course rigging topics.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>307 Drawing I</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course introduces drawing concepts used in the pipetrades. Upon completion of the course, the apprentice will be able to interpret preliminary drawings, isometric and plan flat symbols, applied drawing and blueprint reading, plans used in the trade, and architects scale.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b>  Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>309 Supervision and Leadership</b> 3.00 hours lecture, .00 hours lab, 3.00 units Grade Only</p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>Students learn leadership skills as defined by the United Association (UA) and the Mechanical Contractors' Association (MCA) in the field of plumbing. Students are also introduced to the theory and installation of domestic hot water energy systems, and the design of plumbing modules including waste vents, water and gas lines using mock-ups.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Change grading option. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>311 Basic Science</b> 3.00 hours lecture, .00 hours lab, 3.00 units Grade Only</p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course reviews the fundamental science and mechanics of the piping trade. Topics include industry applications of the properties of water, hydraulics, pneumatics and metals.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>313 Copper and Gas Welding</b> 1.50 hours lecture, 1.50 hours lab, 2.00 units Grade Only</p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p>
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<p>This course provides hands-on use of soldering, brazing, welding and metal cutting procedures. Topics include safety practices, equipment needs, filler materials, types of pipe welds, oxyacetylene cutting, cutting defects, flame straightening, and use of templates.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>315 Metallic Arc Welding</b>  <b>1.50 hours lecture, 1.50 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course provides instruction on arc welding, pipe and plate welding, and operation of oxyfuel cutting equipment. Students learn how to set up equipment, perform trial beads and maintain equipment. Topics also include types of welds, preheating and stress relieving and quality control and codes. This course also covers welding procedure qualifications, vee welds, pipe welds, piping materials, a basic electricity review, and pipe welding processes. Emphasis is on the safe use of equipment.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>317 Drainage Systems</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course focuses on the application of the waste and vent section of the Plumbing Code. Topics include sewage disposal and safety and the installation and testing of plumbing drainage systems, traps, vents, municipal and private sewers, and plumbing fixtures.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p>
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<p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>319 Gas Distribution</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course focuses on the application of the gas section of the Plumbing Code with respect to the operation and installation of gas vent systems and controls. Upon course completion, the student understands the implications of the laws of gases and can safely design and lay out a gas system to code specification.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>321 Math/Builder Level-Transit</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course focuses on advanced math applied to science and mechanics problems in the field. Topics include piping and offset calculations, basic flow problems and use of the builders level-transit to determine elevation differentials and simple tangents.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>323 Water Distribution Systems</b> 3.00 hours lecture, .00 hours lab, 3.00 units Grade Only</p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course is a study of the principles which govern the method of water supply and distribution. Topics covered include water treatment, pipeline materials, pipe losses, cross connectors and backflow prevention. The focus is on the construction of a hot water supply in accordance with the Uniform Plumbing Code and sizing charts. Safety is emphasized.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>325 Fixtures and Controls</b> 3.00 hours lecture, .00 hours lab, 3.00 units Grade Only</p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course provides the plumbing student information on plumbing fixtures and controls. Topics covered include institutional fixtures and design, fixture controls, appliances, accessories, standard abbreviations and standard specifications. Safe use of tools and equipment is emphasized.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Change course title. <i>Approved</i> Change course description. <i>Approved</i> Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>327 Plumbing Code</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course is a survey of the Plumbing Code emphasizing special areas requiring knowledge of large multiple installations of plumbing. Upon completion, the student will have a working knowledge of applicable plumbing codes for layout and installation in the field.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>329 Advanced Drawing and Plan Reading</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course provides the student with advanced level plan reading and drawing skills related to plumbing systems. Upon completion, the student will have the ability to independently develop drawings and sketches and will accurately interpret building plans and specifications for all primary building systems.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>330 Fifth Year Specialties</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Credit/No Credit Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change course description. <i>Approved</i></p>
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<p>This course covers the application of the most current codes and state regulations governing plumbing, piping and excavating operations. Upon completion, the apprentice will be prepared to take the Journeyman P.I.P.E. exam and Cal/OSHA Excavation Competent Person exam.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>332 Piping Technologies</b>  <b>1.50 hours lecture, 1.50 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This is a piping course designed for plumbing apprentices wishing to expand their knowledge of the plumbing industry and the "state of the art" medical gas systems used in the trade. Topics include the necessary information and skills needed to pass the Medical Gas Installation Certification Examination recognized by the San Diego Plumbing and Pipefitter Joint Apprenticeship Committee. Apprentices also utilize computers and software to plan, diagnose, and layout plumbing projects.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed</b></p> <p>Remove advisory <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>335 Solar Systems and Plumbing Modules</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course provides an introduction to the theory and installation of domestic hot water energy systems. The installation of solar system components and plumbing modules are examined closely.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p>
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<p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>337 Service and Repair</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course introduces the theory and practice of service work in the plumbing industry. Upon completion of the course, the student will have an understanding of customer relations, work planning, and troubleshooting plumbing systems.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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### Plumbing (County Pipetrades) (PMBG )

<p><b>339 Plumbing Design and Layout</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>This course emphasizes the principles, operation, installation and distribution of hot and cold water, drainage and ventilation systems. The Plumbing Code as it relates to water, waste, vents and gas is considered. Topics prepare the student to plan for plumbing project labor and material costs.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>  Change course description. <i>Approved</i>  Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Plumbing (County Pipetrades) (PMBG )**

<p><b>*345 Special Topics in Plumbing</b>  <b>1.00 - 4.00 hours lecture, 3.00 - 12.00 hours lab, 1.00 - 4.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade.</p> <p>Specific examination of problems and new topics of interest in the Plumbing trade. This courses may be taken four times with different content for a maximum of six units.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b>          Course deactivation (not at any college). <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**Political Science (POLI )**

<p><b>101 Introduction to Political Science</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is an introductory study of the fundamental concepts and methods of Political Science. Emphasis is placed on historical and contemporary political theories, ideologies and cultures as well as on political institutions, parties and interest groups and the international political system. This course may be required for students planning to major in Political Science and is highly recommended for students transferring to four-year institutions.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b>          Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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**San Diego Gas And Electric (SDGE )**

<p><b>302 Electric Lineman IA</b>  <b>5.00 hours lecture, .00 hours lab, 5.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051and ENGL 056and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 190 .</p> <p>This course provides an orientation in the power distribution and line construction industry. Basic electrical principles and safety on the job are emphasized. Topics include basic mathematical computations, including trigonometry fundamentals, electron theory and the fundamentals of magnetism. Students will combine electrical theory with laboratory and practical applications in the course of study.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change advisory. <i>Approved</i></p> <p>Change limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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**San Diego Gas And Electric (SDGE )**

<p><b>304 Electric Lineman IB</b>  <b>5.00 hours lecture, .00 hours lab, 5.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051and ENGL 056and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 191. .</p> <p>This course involves the study of the power distribution and line construction industry. Topics include methods of producing electricity, A.C. and D.C. meters and circuitry and electric batteries. Students will also learn about Ohm's Law and Kirchhoff's Law and electromagnetic induction.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change advisory. <i>Approved</i></p> <p>Change limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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### San Diego Gas And Electric (SDGE )

<p><b>310 Electric Lineman IIA</b> 5.00 hours lecture, .00 hours lab, 5.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40. Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 192 .</p> <p>This course is a study of alternating current circuits, A.C. and D.C. motors and generators, pole and overhead construction, and transformers and voltage regulators. Topics include schematics, shunt and series capacitors and safety issues outlined by the Occupational Safety and Health Act (OSHA). Calculating power used by electrical circuits is also covered.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change advisory. <i>Approved</i></p> <p>Change limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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### San Diego Gas And Electric (SDGE )

<p><b>312 Electric Lineman IIB</b> 5.00 hours lecture, .00 hours lab, 5.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40. Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 193 .</p> <p>This course covers state safety orders for line construction and maintenance, transmission and distribution systems and conductors and electrical systems faults. Students will also learn about short circuits, system protective concepts and how to identify control circuits from wiring diagrams.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change advisory. <i>Approved</i></p> <p>Change limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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**San Diego Gas And Electric (SDGE )**

<p><b>320 Electric Lineman IIIA</b>  <b>5.00 hours lecture, .00 hours lab, 5.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051and ENGL 056and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 194.</p> <p>This course covers advanced theory of electrical distribution lines and systems. Other topics include phasing, system groundings, substations and the use of electrical instruments. Students will also learn how to connect transformers in accordance with the state code. Usage of fusing tables and reference tables, including technical symbols are also covered.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change advisory. <i>Approved</i></p> <p>Change limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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**San Diego Gas And Electric (SDGE )**

<p><b>322 Electric Lineman IIIB</b>  <b>5.00 hours lecture, .00 hours lab, 5.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051and ENGL 056and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for ELCT 195 .</p> <p>This course is a continuation of advanced theory of electrical distribution lines and systems. Topics include the use of "hot sticks" and special equipment; repair and maintenance of poles and lines both cold and energized, safety practices and the local/state requirements. Students will be expected to master competencies such as those included in elements of electricity, overhead pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration of underground electrical distribution.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b></p> <p>Change advisory. <i>Approved</i></p> <p>Change limitation on enrollment. <i>Approved</i></p> <p>Change course description. <i>Approved</i></p> <p>Integrate outline. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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<b>CAN DATA:</b> None	
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**Shipbuilding Technology (SHIP )**

<p><b>101 Introduction to Shipbuilding Technology I</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This is a survey course that covers the history, standard business models, and current concepts, theories and methods related to manufacturing in the shipbuilding industry.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b>  New course. <i>Approved</i>  Advisory. <i>Approved</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2004</p>
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## DISTANCE EDUCATION – FOR INFORMATION ONLY

### Administration Of Justice (ADJU )

<p><b>160 Criminal Law II</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b> None</p> <p>Students are introduced to dangerous weapons control laws, homicide, false imprisonment, kidnapping, sex crimes, public safety and morals, burglary, robbery and extortion, theft and embezzlement, controlled substance and alcohol abuse, forgery, arson, and Alcohol Beverage Control (ABC) laws.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Dist. Ed Proposed For College(s):</b> Miramar</p> <p><b>Effective:</b> Fall 2003</p>
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### Business (BUSE )

<p><b>150 Human Relations in Business</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>Designed to assist employees and employers in understanding human behavior in social institutions, business and industry. Areas for discussion include: leadership, communication, status, decision making, motivation, personnel problems. Case problem method of instruction used.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Dist. Ed Proposed For College(s):</b> Miramar</p> <p><b>Effective:</b> Fall 2003</p>
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## Computer And Information Sciences (CISC )

<p><b>110 Microcomputer Applications</b>  <b>1.50 hours lecture, 1.50 hours lab, 2.00 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b> None</p> <p>This course is a broad-based study of microcomputer applications. Emphasis is placed on providing students with hands-on experience using and integrating current word processing, spreadsheet, database and presentation software applications. In addition, this course provides an introduction to electronic mail and web and desktop publication programs.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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## Electrical (ELEC )

<p><b>301A Introduction to Electrical Apprenticeship I</b>  <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 108 or ELEC 060A</p> <p>This course provides the electrical apprentice with instruction in general construction site safety, measurements and formulas, use of hand and power tools, interpretation of blueprints, basic rigging techniques and methods used to move equipment and materials.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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**Electrical (ELEC )**

<p><b>301B Introduction to Electrical Apprenticeship II</b> <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Advisory: ELEC 301A with a grade of "C" or better, or equivalent. Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 109 or ELEC 060B</p> <p>This course provides the electrical student with instruction in basic principles of electrical safety and hazard procedures including working with toxins and vapors. Students will also be provided with instruction in techniques used to hand bend conduits and install anchors and supports. Additional instruction will include an introduction to basic electrical theory and test equipment, the use of NEC boxes, fittings and conductors, and the interpretation of related electrical blueprints and commercial/industrial/residential symbols, diagrams and schematics used for wiring.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action. <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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**Electrical (ELEC )**

<p><b>302A Intermediate Electrical Apprenticeship I</b> <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Advisory: ELEC 301B with a grade of "C" or better, or equivalent. Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 110 or ELEC 065A</p> <p>This course covers intermediate electrical techniques including principles of alternating currents, characteristics of circuits, transformers, motor theory applications, grounding purposes and methods, NEC requirements for conduit bending, types of bends, specifications for boxes and fittings, and location considerations.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action. <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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## Electrical (ELEC )

<p><b>302B Intermediate Electrical Apprenticeship II</b> <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Advisory: ELEC 302A with a grade of "C" or better, or equivalent. Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 111 or ELEC 065B</p> <p>This course provides the electrical apprentice with the installation of connections for conductor termination and splices; use of cable pulling instruments and NEMA and NEC standards for cable tray; installation of electrical service and related components and equipment; use of manual take-off methods and troubleshooting techniques; identification of ratings for current breakers and fuses and regulations for sizing, use, and installation of relay switches, conductors and overrides; electrical lighting principles, types and applications.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action. <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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## Electrical (ELEC )

<p><b>303A Advanced Electrical Apprenticeship I</b> <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b> <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b> Advisory: ELEC 302B with a grade of "C" or better, or equivalent. Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 212 or ELEC 070A</p> <p>This course includes instruction in branch load calculations for circuits and varied electrical appliances; introduction to and identification of electrical conductors; devices used for overprotection of loads, currents, circuits and fuses; fill requirements for boxes/raceways; principles of wiring devices, switches and receptacles and their locations; requirements for distribution equipment; settings for voltage, switch gear, circuits and components; distribution system transformers and their characteristics; types of components; NEC requirements; methods for locating and troubleshooting problems.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action. <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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<p><b>CAN DATA:</b> None</p>	
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**Electrical (ELEC )**

<p><b>303B Advanced Electrical Apprenticeship II</b>  <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ELEC 303A with a grade of "C" or better, or equivalent.          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 213 or ELEC 070B</p> <p>This course provides the electrical apprentice with instruction in basic lighting and NEC requirements for lighting fixtures for indoor and outdoor use; an introduction to motor basics, calculations, transformers, instruments for testing, wiring, protection, maintenance, and troubleshooting for various types of motors and motor controls; introduction to HVAC systems and refrigeration theory, compressors, operating systems and system maintenance equipment, and safety requirements for varied locations; principles for combustion, hazardous materials and their reactions in varied locations, and the use of safety equipment.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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**Electrical (ELEC )**

<p><b>304A Electrical Apprenticeship Specialties I</b>  <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>          Advisory: ELEC 303B with a grade of "C" or better, or equivalent.          Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 222 or ELEC 075A</p> <p>This course provides the electrical apprentice with instruction in calculations for wiring commercial and residential dwellings and NEC requirements for lighting and specialty fixtures; characteristics and types of standby emergency electrical systems and system applications, size of disconnect switches, feeder and branch circuits for DC systems;</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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<p>theory and operating principles for solid-state devices, operational amplifier circuits, specialty and transformers and components of fire alarm and security systems; installation methods for smoke and heat detectors.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	
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### Electrical (ELEC )

<p><b>304B Electrical Apprenticeship Specialties II</b>  <b>2.00 hours lecture, 3.00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Advisory: ELEC 304A with a grade of "C" or better, or equivalent.  Limitation on Enrollment: Apprenticeship - Student must be a state registered apprentice in this trade. This course is not open to students with previous credit for BLDC 223 or ELEC 075A</p> <p>This course is designed to provide the electrical apprentice with advanced instruction of controls for motors, starters, relays, switches and transformers; installation and connection of gas burner controls and commercial and industrial HVAC control systems.; NEC and OSHA requirements for connecting and grounding varied welding machines; installation and protection of heat-tracing and freeze protection equipment; principles and maintenance of motors and selection of materials and tools required for high voltage termination/splices according to manufacturer's specifications.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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### Geography (GEOG )

<p><b>102 Cultural Geography</b>  <b>3.00 hours lecture, .00 hours lab, 3.00 units</b>  <b>Letter Grade, Student may petition for Credit/No Credit</b></p> <p><b>REQUISITES:</b>  Advisory: ENGL 101; or ENGL 105, each with a grade of "C" or better, or equivalent, or W6/R6.</p> <p>This course is an introduction to thematic cultural geography. The elements covered include population, race, language, religion, settlement patterns, political organization, economic activities, industry, and the regional distribution of these elements.</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Distance learning - No other action.  <i>Reviewed</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> City</p>
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<p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and private colleges and universities. CSU General Education; IGETC UC Transfer Course List</p> <p><b>CAN DATA:</b> (CAN GEOG 4, City, Mesa, Miramar)</p>	<p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2003</p>
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## PROGRAM CHANGES

(Note: To view from *Proposals* screen, click *Program Search* button, scroll down to program name, then option title, if appropriate, and click *PR* icon.)

### **Apprenticeship, Honeywell Tool and Die, City, effective Spring 2004**

- \*Add new program. *Approved*
- \*Add Certificate of Achievement, *Tool and Die Apprenticeship*, 39 units. *Approved*
- \*Add Associate in Science, *Tool and Die Apprenticeship*, 39 units. *Approved*

### **Computer Business Technology, City, effective Fall 2004**

#### **Certificate of Completion, Computer Software Applications**

Add CBTE 114 (1 unit) to restricted electives. *Approved*  
No change to total units.

#### **Certificate of Achievement, Administrative Assistant**

Add CBTE 114 (1 unit) to restricted electives. *Approved*  
No change to total units.

#### **Certificate of Achievement, Legal Administrative Assistant**

Add CBTE 114 (1 unit) to restricted electives. *Approved*  
No change to total units.

#### **Associate in Science, Administrative Assistant**

Add CBTE 114 (1 unit) to restricted electives. *Approved*  
No change to total units.

#### **Associate in Science, Legal Administrative Assistant**

Add CBTE 114 (1 unit) to restricted electives. *Approved*  
No change to total units.

### **Computer Technical Illustration, City, effective Fall 2004**

#### **Certificate of Achievement, Computer Technical Illustration**

Remove ARTG 124 (3 units). *Approved*  
Add ARTG 120 (3 units). *Approved*  
No change to total units.

#### **Associate in Science, Computer Technical Illustration**

Remove ARTG 124 (3 units) and RTVC 151(3 units). *Approved with modification (shown in underscored print)*.  
Add ARTG 120 (3 units). *Approved*  
\* Reduce total units from 30 to 27. *Approved with modification (shown in underscored print)*.

#### **Associate in Science, Computer Technical Illustration, Engineering Emphasis**

Remove ARTG 124 (3 units). *Approved*  
Add ARTG 120 (3 units). *Approved*  
No change to total units.

### **Electricity, City, effective Fall 2004**

- \*Add Associate in Science, *Lineman*, 31-34 units. *Approved*

### **History, City only, effective Fall 2004**

#### **Associate in Arts, History**

Remove HIST 175 from recommended electives at City. *Approved*  
No change to total units.