

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

**Animal Health Technology (ANHL)**

**Action Taken**

<p><b>*145 Veterinary Anatomy and Physiology</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> BIOL 107 and CHEM 100 and CHEM 100L, each with a grade of "C" or better, or equivalent.  <i>Corequisite:</i> ANHL 145L.  <i>Advisory:</i> ENGL 051 &amp; ENGL 056 &amp; MATH 095, each with a grade of "C" or better, or equivalent, or Assessment Skill Level W5/R5/M40.  <i>Limitation on Enrollment:</i> Special Admission - must be admitted to program. This course is not open to students with previous credit for ANHL 120.                  This lecture course is designed to introduce the first semester Animal Health Technology student to the comparative normal anatomy and physiology of selected domestic animal species. The eleven anatomical systems are covered and material presented ranges from the microscopic cellular level to the level of the full organism. Relevant application of structure and function to the clinical medical situations is addressed. Appropriate medical terminology is included with each system. To continue in the Animal Health Technology Program, students must earn a grade of "C" or better.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2006</p>
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**Animal Health Technology (ANHL)**

<p><b>*145L Veterinary Anatomy and Physiology Lab</b></p> <p style="text-align: right;"><b>3 hours lab, 1 unit Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> BIOL 107 and CHEM 100 and CHEM 100L, each with a grade of "C" or better, or equivalent.  <i>Corequisite:</i> ANHL 145.  <i>Advisory:</i> ENGL 051 &amp; ENGL 056 &amp; MATH 095, each with a grade of "C" or better, or equivalent, or Assessment Skill Level W5/R5/M40.  <i>Limitation on Enrollment:</i> Special Admission - must be admitted to program. This course is not open to students with previous credit for ANHL 120.                  This veterinary anatomy and physiology laboratory course is designed to provide the first semester Animal Health Technology student with the opportunity to investigate and study the principles of normal anatomy and physiology presented in the corresponding lecture course (ANHL 145). Techniques for the safe and proper dissection are introduced and practiced by the student during the extensive animal dissection. All eleven anatomical systems are studied through actual dissection or models. Relevant application of structure and function to the clinical medical situations is addressed. Appropriate medical terminology is included with each system. Animal dissection is carried out by each student. To continue in the Animal Health Technology Program,</p>	<p><b>Offered At:</b> NONE</p> <p><b>Action(s) Proposed:</b> New Course <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 2006</p>
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<p>students must earn a grade of "C" or better.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	
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**Animal Health Technology (ANHL)**

<p><b>*255 Laboratory Animal Medicine</b></p> <p style="text-align: right;"><b>2 hours lecture, 2 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> ANHL 100B and ANHL 125L and ANHL 225, each with a grade of "C" or better, or equivalent.  <i>Corequisite:</i> ANHL 255L.  <i>Limitation on Enrollment:</i> This course is not open to students with previous credit for ANHL 250.                  This lecture course is designed for the second year Animal Health Technology student. The course covers the use of animals in biomedical research with an emphasis on common laboratory species, animal welfare legislation and the philosophy of laboratory animal management. The course includes handling, restraint, husbandry, care and observation of laboratory species. Methods and procedures involved in laboratory animal breeding, injections, anesthesia, sample collection, medicating, nutrition, euthanasia and necropsy are also covered. Appropriate terminology is included. To continue in the Animal Health Technology Program, students must earn a grade of "C" or better.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2006</p>
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**Animal Health Technology (ANHL)**

<p><b>*255L Laboratory Animals Medicine Laboratory</b></p> <p style="text-align: right;"><b>3 hours lab, 1 unit Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> ANHL 100B and ANHL 125L and ANHL 225, each with a grade of "C" or better, or equivalent.  <i>Corequisite:</i> ANHL 255.  <i>Limitation on Enrollment:</i> This course is not open to students with previous credit for ANHL 250.                  This laboratory animal medicine laboratory course is designed to provide the second year Animal Health Technology student with the opportunity to practice the principles and procedures presented in the Laboratory Animal Medicine (ANHL 255) lecture. Students apply regulations and ethical principles to various situations. Techniques for the safe and proper animal restraint, anesthesia, injection techniques, and sample collection are introduced and practiced by the student. Students also perform tattooing, ear notching and other procedures commonly utilized in the research setting. Students are required to perform a necropsy following established guidelines.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2006</p>
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**Alcohol And Other Drug Studies (AODS)**

<p><b>158 Chemical Dependency Family Counseling Techniques</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> AODS 150 and AODS 152 and AODS 154, each with a grade of "C" or better, or equivalent.  <i>Limitation on Enrollment:</i> This course is not open to students with previous credit for BEHS 158 or PSYC 265: Chemical Dependency Family Counseling Techniques                  This course is a study of the theory and techniques involved in treating the family as well as the chemically dependent person as the client. Emphasis is placed on diagnosing family codependency, treatment strategies, prevention and intervention with an interdisciplinary perspective. This course is open to students who have completed AODS 150, 152 and 154 and should be taken after a student's first semester in the AODS program. It is a required advanced course for the Certificate in Alcohol and Other Drug Studies.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Course Integration (Including Activation)</p> <p><b>Proposal Actions:</b>                  Advisory-change                  Course Description                  Critical thinking assignments                  Method of Evaluation,                  Method of Instruction                  Outline of Topics                  Outside assignments                  Reading assignments                  Writing assignments                  Texts/Supplies  <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 2006</p>
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**Art-Fine Art (ARTF)**

<p><b>109 Nineteenth and Twentieth Century Art</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ARTF 110 and ARTF 111 each with a grade of "C" or better, or equivalent. This course is designed not only for art students but also for those who are interested in history, humanities, teaching, travel and cultural enrichment. It is an introductory survey of the visual arts that are most relevant to an understanding of western civilization in the 19th and 20th centuries. It includes major monuments and representative art works from Europe, Russia and the Americas.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Mesa, Miramar, City</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</p>
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**Art-Fine Art (ARTF)**

<p><b>175A Sculpture I</b></p> <p style="text-align: right;"><b>1.5 hours lecture, 4.5 hours lab, 3 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ARTF 150A with a grade of "C" or better, or equivalent. This course is an introduction to sculptural materials, processes and forms. The course helps students to appreciate the shapes and functions of sculpture (past and present) in the context of hands-on experience. This course is intended for transfer students planning to major in art and for all students interested in working in three-dimensional media.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. UC Transfer Course List</p> <p><b>CAN DATA:</b> CAN ART 12 (City, Mesa, Miramar)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</p>
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**Art-Fine Art (ARTF)**

<p><b>196 Clay and Glaze Technology</b></p> <p style="text-align: center;"><b>1.5 hours lecture, 4.5 hours lab, 3 units                  Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> ARTF 195A with a grade of "C" or better, or equivalent.  <i>Advisory:</i> ARTF 195B or ARTF 197B with a grade of "C" or better, or equivalent.                  This is a survey of technical processes in ceramics that introduces students to basic and advanced techniques of glaze formulation, mixing, and testing. The course also acquaints students with the composition of clays, stains, and engobes and how these respond to different kilns and firing conditions. This course is designed to help ceramics majors and other interested students understand the physical and chemical nature of ceramic materials.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa, Miramar, City</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</p>
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**Art-Fine Art (ARTF)**

<p><b>197A Handbuilding Ceramics I</b></p> <p style="text-align: center;"><b>1.5 hours lecture, 4.5 hours lab, 3 units                  Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> ARTF 195A with a grade of "C" or better, or equivalent.  <i>Advisory:</i> Completion of or concurrent enrollment in ENGL 051 &amp; ENGL 056 each with a grade of "C" or better, or equivalent, or Assessment Skill Level W5/R5.                  This course provides instruction in the design and construction of hand-built ceramic forms. Students create ceramic forms emphasizing form and surface enrichment, while gaining experience applying glazes and loading kilns. This course is designed for art majors and for students interested in developing ceramic skills.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa, Miramar, City</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</p>
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**Art-Fine Art (ARTF)**

<p><b>197B Handbuilding Ceramics II</b></p> <p style="text-align: center;"><b>1.5 hours lecture, 4.5 hours lab, 3 units                  Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> ARTF 197A with a grade of "C" or better, or equivalent.  <i>Advisory:</i> Completion of or concurrent enrollment in ENGL 051 &amp; ENGL 56 each with a grade of "C" or better, or equivalent. or Assessment Skill Level W5/R5.                  This course is an intermediate level ceramics course in which students design and construct hand-built ceramic forms emphasizing form and surface enrichment, weigh, mix and use glazes, as well as load kilns and fire electric kilns. This course is designed for major requirements and transfer by ceramic or art majors and for students interested in developing ceramic skills.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Course Deactivation (Active at another College)  <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 2005</p>
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**Art-Fine Art (ARTF)**

<p><b>198A Introduction to Printmaking I</b></p> <p style="text-align: center;"><b>1.5 hours lecture, 4.5 hours lab, 3 units                  Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ARTF 150A and ARTF 155A each with a grade of "C" or better, or equivalent.                  This course is an introduction to the basic printmaking media of intaglio, relief, and monoprinting and is designed for art students and anyone interested in printmaking. Students study techniques to create and print plates; investigate papers and select for properties; analyze, formulate and compare aesthetic strategies for image-making; and practice principles of editioning and conservation of prints. This course satisfies requirements for the major in art with a two-dimensional or design emphasis.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</p>
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**Art-Graphic Design (ARTG)**

<p><b>100 Basic Graphic Design</b>                  1.5 hours lecture, 4.5 hours lab, 3 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b>                  This course is an introduction to the fundamental principles of graphic communication. Instruction will incorporate traditional hand-rendering methods, as well as, use of the computer. In this class the fundamental principles and elements of design are identified and applied to two and three dimensional projects. This course is required for graphic design 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/or 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> Spring 2006</p>
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**Art-Graphic Design (ARTG)**

<p><b>124 Intermediate Graphic Design I (Page Layout)</b>                  1.5 hours lecture, 4.5 hours lab, 3 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ARTG 125 or ARTF 150A or ARTF 150B or ARTF 185 with a grade of "C" or better, or equivalent.                  This intermediate course covers the design and layout of multiple page documents such as annual reports, brochures, newsletters, and stationary packages. The primary tool is the computer, utilizing layout software, but traditional design media is also used. Emphasis is placed on the application of grids, and principles and procedures of effective layout. This course is designed for the student in graphic design as preparation for the major.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar, 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> Spring 2006</p>
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**Art-Graphic Design (ARTG)**

<p><b>125 Digital Media</b>  <b>1.5 hours lecture, 4.5 hours lab, 3 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056 each with a grade of "C" or better, or equivalent or Assessment Skill Levels W5/R5.  <i>Limitation on Enrollment:</i> This course is not open to students with previous credit for ARTC 125.                  This course is an introduction to the principles of digital media utilized for visual communication. Instruction will incorporate the current hardware and software utilized in the graphic design industry. The specific hardware and software will be announced for each course section, each semester. the course is tailored to the student in graphic design.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Miramar, 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> Spring 2006</p>
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**Art-Graphic Design (ARTG)**

<p><b>133 Intermediate Graphic Design II (Identity Systems)</b>  <b>1.5 hours lecture, 4.5 hours lab, 3 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ARTG 125 or ARTF 185 or ARTF 150A or ARTF 150B with a grade of "C" or better, or equivalent.  <i>Limitation on Enrollment:</i> This course is not open to students with previous credit for ARTC 110 or 133.                  This intermediate course covers the application of design principles to the production of logos and marks. Students learn to use type in current marks, create design briefs, and use branding in the development of package designs. Traditional and computer approaches are covered. This course is designed for the student as preparation for the major in graphic design.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Spring 2006</p>
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**Aviation (AVIA)**

<p><b>105 Introduction to Aviation and Aerospace</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056 &amp; MATH 032 each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W5/R5/M20.                  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/or 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> Spring 2006</p>
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**Chemistry (CHEM)**

<p><b>160 Introductory Biochemistry</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> CHEM 130 with a grade of "C" or better, or equivalent.                  The basic principles of the chemistry of biological processes are studied. This course is intended for majors in home economics, nursing, and allied health professions or academic majors in the chemical or life sciences. Topics include acid/base chemistry, thermodynamics, cell biology, amino acids and proteins, enzymes, lipids, membranes and transport, carbohydrates, metabolism, nucleic acids and information transfer.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Course Deactivation (Active at another 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> Fall 2005</p>
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## Chemistry (CHEM)

<p><b>233 Organic Chemistry II - Lecture</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units</b> <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> <i>Prerequisite:</i> CHEM 231 &amp; CHEM 231L, each with a grade of "C" or better, or equivalent. <i>Corequisite:</i> Completion of or concurrent enrollment in CHEM 233L with a grade of "C" or better, or equivalent.</p> <p>This course is the second semester of a one-year sequence in Organic Chemistry. It is designed for students pursuing a baccalaureate degree in the chemical sciences or in majors such as premedical, pre dental or pharmacy; and for students training for careers in some chemical technology fields. The topics covered include, but are not limited to, molecular structure, nomenclature, reaction mechanisms, and synthesis. An emphasis is placed on the reactions of selected classes of organic compounds, such as alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, amines, benzenoid and heterocyclic aromatics and their derivatives, carbohydrates, lipids, amino acids and peptides, and nucleic acids. The study of these molecules provides a backdrop for exploring the factors that govern particular transformations within a synthetic sequence. The use of print and electronic media and the interpretation of spectroscopic information (such as infrared, nuclear magnetic resonance, and ultraviolet-visible spectroscopies, and mass spectrometry) for the analysis and differentiation of molecular structures is continued.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. IGETC, UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa, City</p> <p><b>Action(s) Proposed:</b> Course Activation (Currently active at another college) <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 2005</p> <p><i>This course has been proposed at Miramar for IGETC, Area 5a, (Physical and Biological Sciences—Physical Sciences courses); this course has been proposed for UC transfer course list.</i></p>
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## Chemistry (CHEM)

<p><b>233L Organic Chemistry II - Laboratory</b></p> <p style="text-align: right;"><b>6 hours lab, 2 units</b> <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> <i>Prerequisite:</i> CHEM 231 &amp; CHEM 231L, each with a grade of "C" or better, or equivalent. <i>Corequisite:</i> Completion of or concurrent enrollment in CHEM 233 with a grade of "C" or better, or equivalent.</p> <p>This course is the second semester of a one-year sequence in Organic Chemistry Laboratory and is designed to illustrate the principles presented in Chemistry 233. It is intended for students pursuing a baccalaureate degree in the chemical sciences or in majors such as premedical, pre dental or pharmacy; and for students training for careers in some chemical technology fields. The emphasis is on synthesis, purification and/or characterization of selected classes of organic compounds, including but not limited to aromatics, alcohols, aldehydes and ketones, carboxylic acids, amines, and simple examples of bio-organic molecules. Additional emphasis is placed on multi-step synthetic pathways and product identification using selected methods of qualitative organic analysis such as wet chemical and advanced spectroscopic techniques. Variation of scale from micro- to macro-quantities, and more advanced separation and analytical techniques, distinguish the level of this course from Organic Chemistry I</p>	<p><b>Offered At:</b> Mesa, City</p> <p><b>Action(s) Proposed:</b> Course Activation (Currently active at another college) <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 2005</p>
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<p>Laboratory.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. IGETC, UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><i>This course has been proposed at Miramar for IGETC, Area 5a, (Physical and Biological Sciences—Physical Sciences courses); this course has been proposed for UC transfer course list.</i></p>
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**Child Development (CHIL)**

<p><b>*100 Introduction to Child Development</b> <span style="float: right;"><b>3 hours lecture, 3 units Grade Only</b></span></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 043 &amp; ENGL 042, each with a grade of "C" or better, or equivalent, or Assessment Skill Levels W4/R4.                  This course serves as an overview of the field of child development. Emphasis is placed on the analysis of historical and contemporary philosophies and models of early childhood education, exploration of the variety and scope of programs in the community, examination of career options and career preparation in the field of child development, and current issues and trends facing early childhood education. This course partially fulfills the certification requirements for child development Infant/Toddler program requirements.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.  <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> Fall 2005</p>
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**Child Development (CHIL)**

<p><b>141 The Child, Family and Community</b> <span style="float: right;"><b>3 hours lecture, 3 units Grade Only</b></span></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Level W5/R5.                  This course is a study of the dynamics of human development and socialization in a culturally pluralistic society. Emphasis is placed on the influences of contemporary family living and cultural patterns on the child, school-family relationships, and community resources and services that support and strengthen families. This course is a core requirement for California Child Development teacher/director center permits as well as for the State of California Department of Community Care Title XXII licensing childcare centers 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/or private colleges and universities. CSU General Education</p> <p><b>CAN DATA:</b> CAN FCS 12 (City, Mesa, Miramar)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Distance Learning - No Other Action  <i>Reviewed</i>                  (Walk-in)</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 2005</p>
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**Child Development (CHIL)**

<p><b>175 Infant-Toddler Growth and Development</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Level W5/R5.                  This course examines typical and atypical physical, social, emotional, and intellectual growth of the infant and toddler. The selection and maintenance of appropriate play materials and equipment for indoor and outdoor environments is discussed. Appropriate observations and visitations to the community are required. This course meets State of California Title 22 licensing regulations for teachers in infant toddler settings, and is beneficial for parents. This course fulfills the specialization requirement for State of California Master Teacher Permit when taken in addition to CHIL 176.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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>                  (Walk-in)</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 2005</p>
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**Child Development (CHIL)**

<p><b>175 Infant-Toddler Growth and Development</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Level W5/R5.                  This course examines typical and atypical physical, social, emotional, and intellectual growth of the infant and toddler. The selection and maintenance of appropriate play materials and equipment for indoor and outdoor environments is discussed. Appropriate observations and visitations to the community are required. This course meets State of California Title 22 licensing regulations for teachers in infant toddler settings, and is beneficial for parents. This course fulfills the specialization requirement for State of California Master Teacher Permit when taken in addition to CHIL 176.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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>Originating Campus:</b> Miramar</p> <p><b>Dist. Ed Proposed For College(s):</b> Miramar</p> <p><b>Effective:</b> Fall 2005</p>
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**Child Development (CHIL)**

<p><b>180 Nutrition, Health and Safety for Children</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 042 &amp; ENGL 043, each with a grade of "C" or better, or equivalent or Assessment Skill Level R4/W4.                  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/or private colleges and universities.</p> <p><b>CAN DATA:</b> NONE</p>	<p><b>Offered At:</b> Mesa, Miramar, City</p> <p><b>Action(s) Proposed:</b> Distance Learning - No Other Action  <i>Reviewed</i>                  (Walk-in)</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 2005</p>
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**Child Development (CHIL)**

<p><b>265H Compass to Quality School-Age Care</b></p> <p style="text-align: right;"><b>1 hour lecture, 1 unit Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Limitation on Enrollment:</i> Special Admission - must be admitted to program.                  This course provides students with the opportunity to explore and examine philosophical and practical approaches to working with school-age children.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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>Reviewed</i></p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2005</p>
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**Digital Film Production (DFLM)**

<p><b>*101 Introduction to Film</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Levels W5/R5.                  This course introduces students to the narrative, thematic, and aesthetic aspects of cinema. It examines a wide variety of films and emphasizes styles of directors as well as aspects of characterization and themes. Topics include the artistic quality of film and the development of technical methods used by filmmakers to present their ideas.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Spring 2006</p> <p><i>This course has been proposed at Miramar for CSU General Education Area C2 (Arts, Literature, Philosophy, and Foreign Languages-Humanities) and for IGETC, Area 3, (Arts and Humanities - Humanities); has been proposed for UC transfer course list.</i></p>
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**English (ENGL)**

<p><b>056 College Reading and Study Skills II</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> ESOL 040 or ENGL 042 with a grade of "C" or better, or equivalent or Assessment Skill Level R4.                  This course is designed for students who need to develop advanced reading skills to succeed in transfer level courses. In this course, students focus on academic reading and study skills and practice strategies to improve reading comprehension and critical thinking. Students also build writing, vocabulary, discussion and study skills to accurately express information and reflect the meaning of class readings. Three units of English credit at this level (either English 51 or English 56) may be applied to the associate degree.</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, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Distance Learning - No Other Action <i>Reviewed</i></p> <p><b>Originating Campus:</b> City</p> <p><b>Dist. Ed Offered At College(s):</b> Mesa</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Spring 2006</p>
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**Fire Protection Technology (FIPT)**

<p><b>111 Fire Apparatus and Equipment</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Levels W5/R5.                  This course introduces students to the specifications, design, construction features, and operational capabilities of mobile and fixed firefighting apparatus. It emphasizes the effective deployment, utilization, and performance of pumpers, ladder trucks, and related specialized equipment under emergency conditions.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Course Integration (Including Activation)</p> <p><b>Proposal Actions:</b>                  Advisory-change                  Outline of Topics,                  Reading assignments,                  Writing assignments,                  Outside assignments,                  Critical thinking assignments,                  Method of Instruction,                  Texts/Supplies,                  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> Spring 2006</p>
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**Fire Protection Technology (FIPT)**

<p><b>113 Fire Mechanics</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Levels W5/R5.  <i>Limitation on Enrollment:</i> This course is not open to students with previous credit for FIRE 156 or FIPT 156.                  This course introduces students to the mechanics of fire apparatus. Topics include fire pumpers, aerial devices, and support equipment and vehicles. The course emphasizes the operation of vehicle components including preventive maintenance, troubleshooting, and minor repairs.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Course Integration (Including Activation)</p> <p><b>Proposal Actions:</b>                  Advisory-change                  Outline of Topics,                  Reading assignments,                  Writing assignments,                  Outside assignments,                  Critical thinking assignments,                  Method of Instruction,                  Texts/Supplies,                  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> Spring 2006</p>
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**Fire Protection Technology (FIPT)**

<p><b>114 Shipboard Fire Control</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Levels W5/R5.                  This course provides students with the information needed to effectively use shipboard fire fighting and rescue equipment. Students study the fundamentals of marine construction, fires or emergency operating procedures at piers or on small pleasure craft, on small commercial boats, large commercial vessels, cruise ships, military vessels, or military sealift command vessels. Topics include post-accident procedures, shipboard fire communications, pre-planning techniques, accident investigation, analysis of factors common to vessel emergencies, and the legal aspects of shipboard rescue and fire protection.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> Course Integration (Including Activation)</p> <p><b>Proposal Actions:</b>                  Advisory-change                  Outline of Topics,                  Reading assignments,                  Writing assignments,                  Outside assignments,                  Critical thinking assignments,                  Method of Instruction,                  Texts/Supplies,                  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> Spring 2006</p>
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**Interior Design (INTE)**

<p><b>200 Advanced Residential Design: Kitchens and Baths</b></p> <p style="text-align: right;"><b>2 hours lecture, 3 hours lab, 3 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> INTE 105, INTE 110, INTE 112B, INTE 125, and INTE 145 each with a grade of "C" or better, or equivalent.                  The focus of this course is on advanced approaches to kitchen and bath design using the National Kitchen and Bath Association (NKBA) Planning Guidelines and NKBA Access Planning Guidelines used in universal design projects. This course is appropriate for students wanting to specialize in kitchen and bath design.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.</p> <p><b>CAN DATA:</b> NONE</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Integration (Including Activation)</p> <p><b>Proposal Actions:</b>                  Change title                  Change prerequisites to advisories                  Course Description                  Hours                  Outline of Topics,                  Reading assignments,                  Writing assignments,                  Outside assignments,                  Critical thinking assignments,                  Method of Instruction,  <i>Approved</i>                  (Walk-in)</p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2006</p>
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**Japanese (JAPN)**

<p><b>101 First Course in Japanese</b></p> <p style="text-align: right;"><b>5 hours lecture, 5 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 043 with a grade of "C" or better, or equivalent or Assessment Skill Level W4.                  This is an entry-level course designed to introduce students to the Japanese language and cultures of Japan. In this interactive course, students learn and use the language by speaking, listening, reading, and writing at the novice level. Basic language structures and vocabulary for communication are examined and explored in Japanese.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Not required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities, CSU General Education, IGETC, UC Transfer Course List.</p> <p><b>CAN DATA:</b> CAN JAPN 2 (Mesa, Miramar)JAPN SEQ A (Mesa)</p>	<p><b>Offered At:</b> Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</p>
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**Japanese (JAPN)**

<p><b>102 Second Course in Japanese</b></p> <p style="text-align: right;"><b>5 hours lecture, 5 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> JAPN 101 with a grade of "C" or better, or equivalent or two years of high school Japanese with a grade of 'C' or better, or equivalent.                  This is a continuation of Japanese 101. In this interactive course, students use listening, reading, speaking and writing at a more complex level. The students further develop their receptive and productive competencies to the intermediate low or mid level. Additional language structures and vocabulary for communication are examined and explored in Japanese.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities, CSU General Education, UC Transfer Course List.</p> <p><b>CAN DATA:</b> CAN JAPN 4 (Mesa, Miramar)JAPN SEQ A (Mesa)</p>	<p><b>Offered At:</b> Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</p>
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**Mathematics (MATH)**

<p><b>119 Elementary Statistics</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> MATH 096 with a grade of "C" or better, or equivalent. or Assessment Skill Level M50.                  This course covers descriptive and inferential statistics. The descriptive portion analyzes data through graphs, measures of central tendency and spread. Other statistical practices utilize basic probability, binomial and normal distributions, estimation of population parameters, hypothesis testing, linear regression and correlation. Analytical reading and problem solving are required for success in this course. This course meets district G.E. 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/or private colleges and universities, UC Transfer Course List, IGETC, CSU General Education.</p> <p><b>CAN DATA:</b> CAN STAT 2 (City, Mesa, Miramar)</p>	<p><b>Offered At:</b> Mesa, Miramar, 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 Offered At College(s):</b> Mesa</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Fall 2005</p>
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**Manufacturing Engineering Technology (MFET)**

<p><b>*101 Introduction to Manufacturing Engineering Technology</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units</b>  <b>Grade Only</b></p> <p><b>REQUISITES:</b> NONE                  This course is designed for students who are interested in the field of Manufacturing Engineering Technology (MET). The course introduces manufacturing principles, including manufacturing systems, design concepts, process and material selection, computer-integrated manufacturing, quality control and management, global competitiveness and manufacturing costs, safety and environmental concerns. It also provides an overview of the MET program structure, job perspectives for graduates, salary ranges and various career options in manufacturing.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2006</p>
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**Mecomtronics (MCTR)**

<p><b>120A Basic Physics for Technical Applications I</b>                  3.00 hours lecture, 3.00 hours lab, 4.00 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b>                  Prerequisite: Mecomtronics 090 &amp; Mathematics 181, each with a grade of "C" or better, or equivalent.                  Corequisite: Mathematics 182.                  This course is an introduction of physics presenting tools that are used in technical applications. Topics of study include measurement standards, scalar and vector quantities, Kinetics in one, two and three dimensions, Newton's laws of motion, the gravitational force, the harmonic oscillator, work and energy, and momentum. The course centers on "hands-on" approaches to analysis of physical phenomena, without neglecting conceptual and calculation rigor.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. CSU General Education</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> General Education and Graduation Requirements - No Other Action <i>Approved</i>                  Brought back from 2/24/05 CIC.</p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2006</p> <p><i>This course has been proposed for CSU General Education area B1 (Physical Universe and its Life Forms – Physical Science), District General Education area B2 (Natural Sciences – Physical Sciences).</i></p>
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**Mecomtronics (MCTR)**

<p><b>120B Basic Physics for Technical Applications II</b>                  3.00 hours lecture, 3.00 hours lab, 4.00 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b>                  Prerequisite: Mecomtronics 120A &amp; Mathematics 182, each with a grade of "C" or better, or equivalent.                  Corequisite: Mathematics 183.                  This sequence of courses presents the tools that are used in technical applications. The topics of study include angular momentum and torque, solids and fluids, waves, temperature, heat transfer, the first and second laws of thermodynamics, and kinetic theory. Emphasis is placed on the conceptual and calculational nature of physical principles and on experimental studies that demonstrate the use of the equations discussed in the theory. Analytical reading and problem solving are required for success in this course.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. CSU General Education</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> General Education and Graduation Requirements - No Other Action <i>Approved</i>                  Brought back from 2/24/05 CIC.</p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2006</p> <p><i>This course has been proposed for CSU General Education area B1 (Physical Universe and its Life Forms – Physical Science), District General Education area B2 (Natural Sciences – Physical Sciences).</i></p>
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**Mecomtronics (MCTR)**

<p><b>120C Basic Physics for Technical Applications III</b>                  3.00 hours lecture, 3.00 hours lab, 4.00 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b>                  Prerequisite: Mecomtronics 120B &amp; Mathematics 183, each with a grade of "C" or better, or equivalent.                  Corequisite: Mathematics 184.                  This is the third course in a three-course sequence in technical science and physics and is intended for students enrolled in the Mecomtronics Computer Technology program. This course presents the tools that are used in technical applications. The topics of study include the electric fields, electric potential, circuit elements, DC and AC circuit analysis, magnetic field, electromagnetism, geometric and physical optics, the special theory of relativity, discoveries in modern physics and an introduction to quantum mechanics. Emphasis is placed on the conceptual and computational principles of physics and experimental studies that demonstrate the use of the equations discussed in the theory. Analytical reading and problem solving are required for success in this course.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. CSU General Education</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City</p> <p><b>Action(s) Proposed:</b> General Education and Graduation Requirements - No Other Action <i>Approved</i>                  Brought back from 2/24/05 CIC.</p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2006</p> <p><i>This course has been proposed for CSU General Education area B1 (Physical Universe and its Life Forms – Physical Science), District General Education area B2 (Natural Sciences – Physical Sciences) .</i></p>
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**Philosophy (PHIL)**

<p><b>100 Logic and Critical Thinking</b>                  3 hours lecture, 3 units  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 101 or ENGL 105 with a grade of "C" or better, or equivalent or Assessment Skill Level W6/R6.                  This course explores the relationship of communications and critical thinking with a focus on good reasoning and the impediments to its mastery. This course emphasizes the development of skills in logical processes including familiarity with the more common fallacies. This course is designed for students learning to apply principles of critical thinking to the practical problems of everyday life.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities, CSU General Education, UC Transfer Course List.</p> <p><b>CAN DATA:</b> CAN PHIL 6 (City, Mesa, Miramar)</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>Originating Campus:</b> City</p> <p><b>Dist. Ed Proposed For College(s):</b> City</p> <p><b>Effective:</b> Spring 2006</p>
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**Physical Education (PHYE)**

<p><b>*157 Fitness Applications</b></p> <p style="text-align: right;"><b>2 - 3 hours lab, 0.5 - 1 units Credit/No Credit Only</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> Completion of or concurrent enrollment in PHYE 153 with a grade of "C" or better, or equivalent.                  This course is designed to provide students with the opportunity to increase their fitness levels by use of a longer and more demanding aerobic circuit. Each student is assessed in the areas of cardiovascular efficiency, flexibility, muscular endurance and body composition. An individualized fitness program is prescribed utilizing goals established jointly by the student and instructor.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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> 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 2006</p> <p><i>This course has been proposed at City for UC transfer course list.</i></p>
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**Physical Therapist Assistant (PHYR)**

<p><b>120 Physical Therapy Techniques II</b></p> <p style="text-align: right;"><b>2 hours lecture, 6 hours lab, 4 units Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> PHYR 111 with a grade of "C" or better, or equivalent.  <i>Corequisite:</i> PHYR 122, PHYR 123, and PHYR 140A.  <i>Limitation on Enrollment:</i> Special Admission - must be admitted to program.                  This course is a continuation of Physical Therapy Techniques I with an emphasis on advanced skills and acute care. It explores the use of mechanical traction, electrotherapy and electromagnetic modalities as well as vasopneumatic compression, chest physical therapy, wound care, transfer and transportation of patients, gait techniques for specific diagnoses, and the identification of architectural barriers and basic wheelchair management. Students continue to use medical terms, charting skills, and role play to foster patient and family teaching as well as a deepening of self-awareness of communication skills.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Revision - (Including Activation)</p> <p><b>Proposal Actions:</b>                  Outline of Topics                  Student Learning Outcomes  <i>Approved</i>                  (Walk-in)</p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2006</p>
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**Physical Therapist Assistant (PHYR)**

<p><b>123 Introduction to Therapeutic Exercise</b>                  1 hours lecture, 3 hours lab, 2 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> PHYR 114 with a grade of "C" or better, or equivalent.  <i>Corequisite:</i> PHYR 120, PHYR 122, and PHYR 140A  <i>Limitation on Enrollment:</i>                  Special Admission - must be admitted to program.</p> <p>This course provides the future Physical Therapist Assistant (PTA) with an exposure to the duties that relate to the PTA scope of practice specific to basic principles of therapeutic exercise, including: range of motion, goniometry, manual muscle testing and proprioceptive neuromuscular facilitation. Basic lower extremity exercises are also introduced. This course is offered in the spring only.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.</p> <p><b>CAN DATA:</b> NONE</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Revision                  - (Including Activation)</p> <p><b>Proposal Actions:</b>                  Change Transferability                  Hours and Units  <i>Approved</i>                  (Walk-in)</p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2006</p>
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**Physics (PHYS)**

<p><b>195C Waves, Light, and Modern Physics</b>                  3 hours lecture, 3 hour lab, 4 units  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> PHYS 195A with a grade of "C" or better, or equivalent.  <i>Corequisite:</i> PHYS 196C.</p> <p>The fundamental principles of physics in the areas of waves, the behavior of light, and an introduction to quantum physics and the atomic and nuclear properties of matter. Physics 195B and 195C may be taken concurrently only if Physics 195A was completed with a grade of "B" or better or with approval of department.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Not required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities. CSU General Education, IGETC, UC Transfer Course List .</p> <p><b>CAN DATA:</b> CAN PHYS 14 = PHYS 195C (City, Mesa) CAN PHYS SEQ B = PHYS 195A + PHYS 195B + PHYS 195C (City, Mesa)</p>	<p><b>Offered At:</b> City and Mesa</p> <p><b>Action(s) Proposed:</b> Course Activation (Currently active at another college)  <i>Approved</i> (Walk-in)</p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Fall 2005</p> <p><i>This course has been proposed at Miramar for: CSU General Education B1, Physical Universe and its Life Forms - Physical Science and Area B3, Physical Universe and its Life Forms - Laboratory Activity; District General Education B2 Natural Sciences - Physical Sciences IGETC Area 5, Physical and Biological Sciences - Physical Science Courses; and for UC transfer course list.</i></p>
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**Physics (PHYS)**

<p><b>196C Problems in Light &amp; Modern Physics</b>  <span style="float: right;"><b>1 hours lecture, 1 units</b></span>  <span style="float: right;"><b>Letter Grade or Credit/No Credit Option</b></span></p> <p><b>REQUISITES:</b>  <i>Corequisite:</i> PHYS 195C.                  Small group discussions of problem-solving methods in physics.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Not required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> City and Mesa</p> <p><b>Action(s) Proposed:</b> Course Activation (Currently active at another college)  <i>Approved</i>                  (Walk-in)</p> <p><b>Proposed For College(s):</b> Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Fall 2005</p>
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**Psychology (PSYC)**

<p><b>255 Introduction to Psychological Research</b>  <span style="float: right;"><b>3 hours lecture, 3 units</b></span>  <span style="float: right;"><b>Letter Grade or Credit/No Credit Option</b></span></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> PSYC 101 with a grade of "C" or better, or equivalent.                  This course is an introduction to scientific methodology in psychology, including descriptive, experimental, and applied research, as well as an introduction to psychological research reports.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Not required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities, UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Activation (Currently active at another college)  <i>Approved</i>                  (Added Miramar approval as walk-in)</p> <p><b>Proposed For College(s):</b> City &amp; Miramar</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2005</p> <p><i>This course has been proposed at City and Miramar for UC transfer course list.</i></p>
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**Sociology (SOCO)**

<p><b>125 Sociology of the Family</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Level W5/R5.                  This course is designed to investigate the structures and functions of the family institution historically, cross-culturally, and in American Society. Attention is on changing gender roles, family stability, family structure and definitions of the family. In addition, emphasis is placed on the family's relationship to economic structures, political institutions, and belief systems. This course is useful for students contemplating majors or careers in sociology, counseling, psychology, social work, and related 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/or private colleges and universities, CSU General Education, UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Activation (Currently active at another college)</p> <p><b>Proposed For College(s):</b> City</p> <p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Spring 2006</p> <p><i>This course has been proposed at City for CSU, Area D0, (Social Political and Economic Institutions and Behavior, Historical Background-Sociology and Criminology); this course has been proposed for UC transfer course list.</i></p>
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**Sociology (SOCO)**

<p><b>201 Advanced Principles of Sociology</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056, each with a grade of "C" or better, or equivalent or Assessment Skill Level W5/R5.                  A course designed to continue the examination of the major ideas that have shaped contemporary sociology. Special attention is given to classical social thinkers and to the origin of sociology as a science.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Not required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities, IGETC, UC Transfer Course List.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Activation (Currently active at another college)</p> <p><b>Proposal Actions:</b>                  Texts/Supplies  <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 2006</p> <p><i>This course has been proposed at City for IGETC, Area 4, (Social and Behavioral Sciences—Social and Criminology courses); this course is being proposed for UC transfer course list..</i></p>
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**Spanish (SPAN)**

<p><b>*216 Spanish for Spanish Speakers II</b></p> <p style="text-align: right;"><b>5 hours lecture, 5 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Prerequisite:</i> SPAN 215 or SPAN 201 with a grade of "C" or better, or equivalent.  <i>Limitation on Enrollment:</i> This course is not open to students with previous credit for SPAN 202, or to Spanish speakers who have received the equivalent of a high school degree in a Spanish speaking country.                  This course is the continuation of Spanish 215. It is designed for students who are fluent in spoken, informal Spanish and who need to improve their writing, reading, and grammar skills. It furthers the mastery of formal, written communication in Spanish at the intermediate-advanced level, while integrating instruction in Hispanic and Chicano culture through increased practice in intermediate-advanced level readings, relevant, and authentic materials. The course focuses on language challenges that Spanish speakers still encounter at intermediate-advanced level, such as orthography, the inappropriate mix of English and Spanish in specific contexts, and standard Spanish as contrasted with regional variations. This course is conducted entirely in Spanish.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or 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><b>Proposed For College(s):</b> City, Mesa, Miramar</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Spring 2006</p> <p><i>This course has been proposed at City, Mesa and Miramar for CSU General Education Area C2 (Arts, Literature, Philosophy, and Foreign Languages-Humanities) and for IGETC, Area 3, (Arts and Humanities—Humanities); this course has proposed for UC transfer course list.</i></p>
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**Speech Communications (SPEE)**

<p><b>170 Small Group Communication</b></p> <p style="text-align: right;"><b>3 hours lecture, 3 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  <i>Advisory:</i> ENGL 051 &amp; ENGL 056 &amp; SPEE 103, each with a grade of "C" or better, or equivalent or Assessment Skill Levels W5/R5.                  Small Group Communication, Speech 170, offers practical experience in the techniques of leading and participating in small group discussions. Small group techniques such as panels, symposiums, problem-solving, conflict resolution, leadership skills and parliamentary procedures are covered. Community building through service learning is presented as a tool to creating collective consciousness and an altruistic philosophy. This course is designed for students intending to major in speech communications, business, international business, education, and all fields of study and certifications that require group and team building skills.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p> <p><b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities, CSU General Education, UC Transfer Course List.</p> <p><b>CAN DATA:</b> CAN SPCH 10 (City, Mesa)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Course Deactivation (Active at another College)  <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 2005</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**

Apprenticeship, PID #1089, City, Effective: Fall 2006 --***Approved***  
Program Revision--***Proposed***

**Delete requirement from Certificate of Achievement:**

*Remove work experience*

**Delete requirement from Associate Degree:**

*Remove work experience*

**\*Biology**

Biology, PID # 1088, City, Effective: Fall 2006--***Approved***

Program Revision--***Proposed***

**Deactivate Certificates of Completion:**

*Applied Biotechnology*

*Lab Assistant*

**Deactivate Associate in Science Degree:**

*Applied Biology Track*

**Geographic Information Systems**

Geographic Information Systems, PID # 1082, Mesa, Effective: Fall 2006--***Approved***

Program Revision--***Proposed***

**Change Certificate of Completion:**

*Geographic Information Specialist – Removed restricted electives.*