

**Curriculum Instructional Council  
Curriculum Summary**

**Approved**

**Actions Approved March 11, 2004**

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

<b>Art-Fine Art (ARTF )</b>	<b>Action</b>
<p><b>120 Native American Indian Art</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent or W5/R5.</p> <p>This course provides for a study of Native American Indian art forms embracing the history, myth, and tribal cultures as found in pottery, textiles, wood and stone carving, basket-making, and jewelry. North America's unique contributions to art history are explored through an introduction to Native North American art and architecture from the prehistoric period to the present. This course is designed for art majors but may also be of interest to students who are interested in archeology, religion, philosophy, and Native American cultures. Classroom lectures are illustrated.</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 : Fine Art 113, 115, 120 combined with Black Studies (BLAS) 111: maximum credit, 2 courses.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Title, Course objectives, Advisory, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Summer 2004</p>
<p><b>Art-Fine Art (ARTF )</b></p> <p><b>190A Black and White Art Photography</b> 1.50 hours lecture, 4.50 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 with a grade of "C" or better, or equivalent, or W5.</p> <p>Photography is taught as a medium for self-exploration and self expression. The course emphasizes the art making-process, in which photographic images and concepts are discussed within social, historical, aesthetic, and technical contexts as well as within the context of photographic genres. Technical instruction is provided in camera operation and exposure, darkroom procedures for film and print development, and print presentation. This course is intended for students preparing for a major in art as well as those interested in photography.</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 18, Mesa)</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Course objectives,Advisory, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>

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**Art-Fine Art (ARTF )**

<p><b>195A Ceramics I</b>  <b>1.50 hours lecture, 4.50 hours lab, 3.00 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>          Advisory: ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is an introductory level ceramics course in which students design and construct hand-built and wheel-thrown ceramic objects. Students learn form and surface enrichment, use glazes, and load kilns. This course is designed to meet art major and transfer requirements for ceramic or art majors and also serves 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> (CAN ART 6, City, Mesa)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included)  <i>Approved</i></p> <p><b>Proposal Actions:</b>          Course objectives,          Outline of Topics,          Reading assignments,          Writing assignments,          Outside assignments,          Critical thinking assignments,          Method of Evaluation,          Method of Instruction,          Texts/Supplies,          Course Description  <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> Fall 2004</p>
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**Art-Fine Art (ARTF )**

<p><b>195B Ceramics II</b>  <b>1.50 hours lecture, 4.50 hours lab, 3.00 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>          Prerequisite: ARTF 195A with a grade of "C" or better, or equivalent.          Advisory: ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course is an intermediate level ceramics course in which students design and construct wheel thrown and handbuilt ceramic objects emphasizing form and surface enrichment, use molds, 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 Integration (Activation included)  <i>Approved</i></p> <p><b>Proposal Actions:</b>          Skills/Knowledge to enter course,          Course objectives,          Prerequisite, Advisory,          Reading or Writing level,          Outline of Topics,          Reading assignments,          Writing assignments,          Outside assignments,          Critical thinking assignments,          Method of Evaluation,          Method of Instruction,          Texts/Supplies,          Course Description  <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar, City</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Art-Fine Art (ARTF )**

<p><b>195C Ceramics III</b>  <b>1.50 hours lecture, 4.50 hours lab, 3.00 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b>  Prerequisite: ARTF 195B with a grade of "C" or better, or equivalent.  Advisory: ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>Continuation of Fine Art 195A/B. This course is an advanced level ceramics course in which students design and construct wheel thrown and handbuilt ceramic forms selecting an area of focus emphasizing form and surface enrichment. Student will develop, mix and use clay and glazes, as well as load and fire gas and electric kilns. This course is intended for transfer students planning to major in art and for all students interested in designing objects in three dimension.</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 Integration (Activation included)  <i>Approved</i></p> <p><b>Proposal Actions:</b>  Skills/Knowledge to enter course, Prerequisite, Advisory, Course Description  <i>Approved</i>  <b>Deactivate Course at Mesa College Only Approved</b></p> <p><b>Proposed For College(s):</b> Miramar, City  <b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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**Art-Fine Art (ARTF )**

<p><b>*195D Porcelain Ceramics</b>  <b>1.50 hours lecture, 4.50 hours lab, 3.00 units</b>  <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> None</p> <p>Advanced projects in both wheel and handbuilding techniques using porcelain (or white stoneware) and related porcelain glazes.</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</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College)  <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, City</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Art-Fine Art (ARTF )**

<p><b>196 Clay and Glaze Technology</b> 1.50 hours lecture, 4.50 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: ARTF 195A with a grade of "C" or better, or equivalent. Advisory: ARTF 195B or ARTF 197B, with a grade of "C" or better, or equivalent.</p> <p>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, City</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Skills/Knowledge to enter course, Course objectives, Prerequisite, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar, City</p> <p><b>Originating Campus:</b> Mesa <b>Effective:</b> Fall 2004</p>
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**Art-Fine Art (ARTF )**

<p><b>197A Handbuilding Ceramics I</b> 1.50 hours lecture, 4.50 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: ARTF 195A with a grade of "C" or better, or equivalent. Advisory: Completion of or concurrent enrollment in ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>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> City, Mesa</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Grading option, Skills/Knowledge to enter course, Course objectives, Prerequisite, Advisory, Reading or Writing level, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <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> Fall 2004</p>
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**Art-Fine Art (ARTF )**

<p><b>197B Handbuilding Ceramics II</b> 1.50 hours lecture, 4.50 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: ARTF 197A with a grade of "C" or better, or equivalent. Advisory: Completion of or concurrent enrollment in ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>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</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Skills/Knowledge to enter course, Course objectives, Prerequisite, Advisory, Reading or Writing level, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> City, Mesa, Miramar <b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Chemistry (CHEM )**

<p><b>100 Fundamentals of Chemistry</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Corequisite: CHEM 100L. 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: This course is not open to students with previous credit for or concurrent enrollment in CHEM 200</p> <p>This course is an introductory study of the language and tools of chemistry. Basic concepts of the structure, properties, interactions and changes of matter and energy are studied, both qualitatively and quantitatively. Applications to everyday experiences are considered. This course is taken by students majoring in nursing or allied health sciences and provides a foundation for further coursework in chemistry. (CAN CHEM 6 when taken with Chemistry 100L) (CAN CHEM SEQ B = CHEM 100 + 100L + 130 + 130L) UC Transfer Credit: Chemistry (CHEM) 100, 100L and 152, 152L combined: Maximum credit, 4 units. No credit will be given for 100, 100L or 152, 152L if taken after Chemistry 200.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required</p>	<p><b>Offered At:</b> Mesa, Miramar, City</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Course Description, Course objectives, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Field Trips, Critical thinking assignments, Method of Evaluation, Method of Instruction, Text/Supplies <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar, City</p>
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<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 : Chemistry (CHEM) 100, 100L and 152, 152L combined: maximum credit four units. No credit for 100, 100L or 152, 152L if taken after 200.</p> <p><b>CAN DATA:</b> (CAN CHEM, SEQ B, City, Mesa) (CAN CHEM 6, City, Mesa, Miramar)</p>	<p><b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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**Chemistry (CHEM)**

<p><b>100L Fundamentals of Chemistry Laboratory</b> .00 hours lecture, 3.00 hours lab, 1.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Corequisite: CHEM 100. Advisory: ENGL 051 and ENGL 056 and MATH 095, each with a grade of "C" or better, or equivalent, or W5/R5/M40.</p> <p>This laboratory course is designed to illustrate the principles of inorganic and physical chemistry as presented in Chemistry 100 and to familiarize students with common laboratory equipment and data collection methods. Along with Chemistry 100, this course is taken by students majoring in nursing or allied health sciences and provides a foundation for further lab work in chemistry. (CAN CHEM 6 when taken with Chemistry 100) (CAN CHEM SEQ B = CHEM100+100L+130+130L) UC Transfer Credit: Chemistry (CHEM) 100, 100L and 152, 152L combined: Maximum credit, 4 units. No credit will be given for 100, 100L or 152, 152L if taken after Chemistry 200.</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 : Chemistry (CHEM) 100, 100L and 151 combined: maximum credit, four units. No credit will be given for 100, 100L or 152, 152L if taken after Chemistry 200.</p> <p><b>CAN DATA:</b> (CAN CHEM, SEQ B, City, Mesa) (CAN CHEM 6, City, Mesa, Miramar)</p>	<p><b>Offered At:</b> City, Mesa, Miramar</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Course Description, Course objectives, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Field Trips, Critical thinking assignments, Method of Evaluation, Method of Instruction, Text/Supplies <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> Fall 2004</p>
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**Chemistry (CHEM)**

<p><b>231 Organic Chemistry I - Lecture</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: CHEM 201 &amp; CHEM 201L, each with a grade of "C" or better, or equivalent. Corequisite: Completion of or concurrent enrollment in CHEM 231L with a grade of "C" or better, or equivalent. Advisory: ENGL 101 or ENGL 105, each with a grade of "C" or better, or equivalent, or</p>	<p><b>Offered At:</b> City, Mesa</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Skills/Knowledge to enter course, Course objectives, Corequisite, Outline of Topics,</p>
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<p>W6/R6.</p> <p>This course is the first semester of a one-year course in Organic Chemistry. Major themes include, but are not limited to, bonding and molecular structure, nomenclature, reaction mechanisms, synthesis, and an introduction to conjugated and aromatic carbon based compounds. An emphasis is placed on the reactions of aliphatic compounds such as alkanes, cycloalkanes, alkenes, alkynes, and alkyl halides. The organic chemistry literature, and spectral interpretation using techniques such as infrared and nuclear magnetic spectroscopies, are introduced to support the above topics. This course is designed for undergraduates pursuing a degree in the chemical sciences, training in chemical technology, and other transfer students who need organic chemistry as part of the formal preparation for their major; for example, molecular biology, premedical, pre dental, and pharmacy.</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: Chemistry (CHEM) 130, 130L and 231, 231L combined: Maximum credit, one course with lab.</p> <p><b>CAN DATA:</b> None</p>	<p>Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, City</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Chemistry (CHEM )**

<p><b>231L Organic Chemistry I - Laboratory</b> <b>.00 hours lecture, 6.00 hours lab, 2.00 units</b> <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: CHEM 201 &amp; CHEM 201L, each with a grade of "C" or better, or equivalent. Corequisite: Completion of or concurrent enrollment in CHEM 231 with a grade of "C" or better, or equivalent. Advisory: ENGL 101 or ENGL 105, each with a grade of "C" or better, or equivalent, or R6/W6.</p> <p>This is a laboratory course designed to illustrate the principles presented in Chemistry 231. The emphasis is on the determination of physical properties and the separation, purification and identification of organic compounds. The course acquaints students with the equipment, glassware, techniques and safe practices specific to the organic chemistry laboratory. Techniques such as measurements of physical constants, recrystallization, extraction, distillation and chromatography are used in the synthesis and/or characterization of selected classes of organic compounds. These classes include, but are not limited to, alkanes, alkenes, alkynes, alkyl halides, and alcohols. The organic chemistry literature, and spectral interpretation using techniques such as infrared and nuclear spectroscopies, are introduced to support the above topics. This course is designed for undergraduates pursuing a degree in the chemical sciences, training in chemical technology, and those students who need organic chemistry as part of the formal preparation for their major; for example, molecular biology, premedical, pre dental, and pharmacy.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required <b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or</p>	<p><b>Offered At:</b> City, Mesa</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Units, Hours, Skills/Knowledge to enter course, Course objectives, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, City</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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<p>private colleges and universities. IGETC; UC Transfer Course List. <b>CAN DATA:</b> None</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 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/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 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 2004</p>
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**Computer And Information Sciences (CISC )**

<p><b>*122 Evaluation &amp; Installation of Computer Hardware</b> <b>.75 hours lecture, .75 hours lab, 1.00 units</b> <b>Grade Only</b></p> <p><b>REQUISITES:</b> None This is an introduction to the evaluation and installation of microcomputer hardware for various microcomputer platforms. This course will show how to select and install microcomputer adapters, peripherals, power supplies, disk drives, and memory chips.</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 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 2004</p>
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**Computer And Information Sciences (CISC )**

<p><b>*123 Evaluation &amp; Installation of Computer Software</b>  .75 hours lecture, .75 hours lab, 1.00 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b> None  This is an introduction to the evaluation and installation of software for microcomputers. This course will cover how to: 1) rate and select software based on needs and features; 2) install software for various hardware and software configurations; and 3) organize soft-ware and other files using operating system file handling routines.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required  <b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.  <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 2004</p>
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**Computer And Information Sciences (CISC )**

<p><b>*125A Inside The Computer Unit</b>  1.50 hours lecture, .00 hours lab, 1.50 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b> None</p> <p>In this course a student learns to assess, diagnose, and select the appropriate hardware for IBM compatible microcomputers. Emphasis is placed on upgrading a microcomputer system and identifying and solving software and hardware problems. This course is part of the Computer Repair Certificate of Completion and is intended for the student who wants to work as a computer repair technician. Concurrent enrollment in Computer and Information Sciences 125B is recommended.</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 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 2004</p>
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**Computer And Information Sciences (CISC )**

<p><b>*125B Computer Hardware Lab</b>  .00 hours lecture, 1.50 hours lab, .50 units  <b>Grade Only</b></p> <p><b>REQUISITES:</b> None  This is the hands-on portion of the Computer and Information Sciences 122 Evaluation &amp; Installation of Computer Hardware. In this course the student will get hands-on experience for installing, troubleshooting, and maintaining microcomputer hardware. Concurrent enrollment in Computer and Information Sciences 125A is recommended.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required  <b>TRANSFER APPLICABILITY:</b> Associate Degree Credit &amp; transfer to CSU and/or private colleges and universities.  <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  <b>Originating Campus:</b> City</p> <p><b>Effective:</b> Fall 2004</p>
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**Curriculum Instructional Council  
Curriculum Summary**

**Approved**

**Actions Approved March 11, 2004**

**Computer And Information Sciences (CISC )**

<p><b>*126A Intermediate Spreadsheet Development I</b> .80 hours lecture, .80 hours lab, 1.00 units</p> <p><b>Grade Only</b></p> <p><b>REQUISITES:</b> Limitation on Enrollment: This course is not open to students with previous credit for CISC 126</p> <p>This course presents a selected spreadsheet package for use in a business environment at the intermediate level. Emphasis is placed on combining business development theory and techniques with spreadsheet applications. Course content includes the formulae and functions, text processing and formatting, importing and exporting data, linking of multiple spreadsheets, advanced data management facilities and graphic features.</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 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 2004</p>
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**Computer And Information Sciences (CISC )**

<p><b>*127 Computer Hardware Industry Training</b> .00 hours lecture, 1.50 hours lab, .50 units</p> <p><b>Grade Only</b></p> <p><b>REQUISITES:</b> None</p> <p>This is the practical application of the Computer and Information Sciences 125A &amp; 125B. In this course the student will get hands-on experience not only for installing, troubleshooting, and maintaining microcomputer hardware, but also for customer service and customer communications that are necessary to succeed in a business environment.</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 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 2004</p>
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**Approved**

**Actions Approved March 11, 2004**

**English (ENGL )**

<p><b>056 College Reading and Study Skills II</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: ESOL 040 or ENGL 042 with a grade of "C" or better, or equivalent, or R4.</p> <p>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>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Dist. Ed Proposed For College(s):</b> Mesa <i>Reviewed</i></p> <p><b>Effective:</b> Fall 2004</p>
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**Filipino Studies (FILI )**

<p><b>100 Filipino American Experience</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056, each with a grade of "C" or better, or equivalent, or W5/R5.</p> <p>This course introduces students to sociological overviews of Filipino Americans. Students analyze current Filipino American perspectives by discussing the history of the Philippines, factors contributing to immigration to the United States, and aspects of the integration experiences that may be unique to Filipino 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/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</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, Miramar</p> <p><b>Originating Campus:</b> Miramar</p> <p><b>Effective:</b> Summer 2004 <i>This course is being proposed for the IGETC (Sociology &amp; Criminology Courses, Area 4J) to be reviewed at the November Meeting.</i></p>
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**Approved**

**Actions Approved March 11, 2004**

**Fire Protection Technology (FIPT )**

<p><b>112 Fundamentals of Fire Protection Chemistry</b> 2.00 hours lecture, .00 hours lab, 2.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032, each with a grade of "C" or better, or equivalent, or W5/R5/M20. Limitation on Enrollment: This course is not open to students with previous credit for FIRE 112.</p> <p>This course provides students with a non-mathematical fundamental understanding of basic chemical principles including matter, energy, and chemical reactions as they apply to fire protection. The course emphasizes how basic chemical principles relate to fire protection by using real world examples relevant to fire fighters working 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> Miramar</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Course objectives, Prerequisite Corequisite Advisory, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, 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> Summer 2004</p>
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**Music (MUSI )**

<p><b>121 Intermediate Voice</b> 1.50 hours lecture, 1.50 hours lab, 2.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: MUSI 120 with a grade of "C" or better, or equivalent. Advisory: ENGL 051 and ENGL 056, each 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 Music 120B.</p> <p>Intermediate Voice is an in-depth study of specific elements of efficient vocal technique and performance. These include breath management via body alignment, managing stage fright, and analyzing the expressive elements of selected music. Vocal exercises and songs from various music styles are performed including selections made by students. Choral singers, all music majors, elementary education majors and students considering singing as a profession benefit from this class.</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</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Re-Numbering-Course was <i>MUSI120B</i> Title,Units,Hours,Field trip, Skills/Knowledge to enter course, Course objectives, Prerequisite Corequisite Advisory, Limitation on Enrollment, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa, City <b>Originating Campus:</b> Mesa <b>Effective:</b> Fall 2004</p>
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**Approved**

**Actions Approved March 11, 2004**

**Music (MUSI )**

<p><b>240 Advanced Voice Class I</b> 1.50 hours lecture, 1.50 hours lab, 2.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: MUSI 120 with a grade of "C" or better, or equivalent. Advisory: ENGL 051 and ENGL 056, each 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 Music 240 A.</p> <p>Advanced Voice I is an in-depth study of specific elements of efficient vocal technique and performance. These include breath management in relation to vocal onset, resonance and vocal registers, expressive singing and stage presence. Vocal exercises and songs from various music styles are performed including selections made by students. Choral singers, all music majors, elementary education majors and students considering singing as a profession benefit from this class.</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</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Re-Numbering-<i>Course was MUSI240A</i> Title, Units, Hours, Skills/Knowledge to enter course, Course objectives, Prerequisite Corequisite Advisory, Reading or Writing level, Limitation on Enrollment, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Nursing Education (NRSE )**

<p><b>*130B End of Life Care - Comfort</b> .50 hours lecture, .00 hours lab, .50 units <b>Credit/No Credit Only</b></p> <p><b>REQUISITES:</b> None</p> <p>This course focuses on providing comfort at end of life. It includes the physiology of pain, pain assessment, and pain management.</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>Dist. Ed Proposed For College(s):</b> City <i>Approved</i></p> <p><b>Effective:</b> Summer 2004</p>
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**Russian (RUSS )**

<p><b>101 First Course in Russian</b> 5.00 hours lecture, .00 hours lab, 5.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 056 with a grade of "C" or better, or equivalent, or R5.</p> <p>This is an entry level course designed to introduce students to the Russian language and cultures of the Russian-speaking world. 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 Russian.</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> (CAN RUSS, SEQ A, Mesa) (CAN RUSS 2, Mesa)</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Integration (Activation included) <i>Approved</i></p> <p><b>Proposal Actions:</b> Skills/Knowledge to enter course, Course objectives, Outline of Topics, Reading assignments, Writing assignments, Outside assignments, Critical thinking assignments, Method of Evaluation, Method of Instruction, Texts/Supplies, Course Description <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Sheet Metal (SHEE )**

<p><b>*075B Level IV Sheet Metal/HVAC</b> 2.00 hours lecture, 3.00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Prerequisite: SHEE 075A with a grade of "C" or better, or equivalent. Limitation on Enrollment: This course is not open to students with previous credit for SHEE 305B .</p> <p>This course covers advanced HVAC troubleshooting and Sheet Metal roofing. Topics include troubleshooting and repair of gas and electric heating systems, cooling systems, heat pumps, and electronic controls, as well as system balancing. Sheet Metal topics include metal roof system applications and installation.</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></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 <i>Approved</i></p> <p><b>Effective:</b> Fall 2004</p>
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**Curriculum Instructional Council  
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**Approved**

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**Speech Communications (SPEE )**

<p><b>104 Advanced Public Communication</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Letter Grade or Credit/No Credit Option</b></p> <p><b>REQUISITES:</b> Prerequisite: SPEE 103 with a grade of "C" or better, or equivalent.</p> <p>This course covers theory, practice and critical analysis of public communication, including speeches on subjects of current interest both local and global. It includes an introduction to the relationship between rhetorical theory and criticism and rhetorical practice in public communication</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> Summer 2004</p>
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**Trolley, San Diego (TROL )**

<p><b>*302 San Diego Trolley Light Rail Vehicle II</b> 1.00 hours lecture, 2.00 hours lab, 1.50 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 beginning levels of maintenance and inspection of Light Rail Vehicles in the San Diego Trolley Light Rail Vehicle apprenticeship program. Topics include mechanical concepts, planned and unplanned maintenance, component inspections, and use of support 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> 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 2004</p>
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**Approved**

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**Trolley, San Diego (TROL )**

<p><b>*303 San Diego Trolley Light Rail Vehicle III</b> 2.00 hours lecture, 3.00 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 intermediate levels of maintenance and inspection of Light Rail Vehicles in the San Diego Trolley Light Rail Vehicle apprenticeship program. Topics include electrical theory, electrical measurement, schematic drawings, control systems, and system troubleshooting.</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></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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**Water And Wastewater Technology (WATR )**

<p><b>*044 Supervised Tutoring in Water/Waste Water Technology</b> .00 hours lecture, .00 hours lab, .00 units <b>No Grade/0 Units</b></p> <p><b>REQUISITES:</b> None</p> <p>This course is designed to prepare the student to succeed in the corequisite and subsequent subject matter courses. This course may be taken four times with a different corequisite subject matter course.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> Not required</p> <p><b>TRANSFER APPLICABILITY:</b> College noncredit course.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*101 Fundamentals-Water/Wastewater</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: 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 is designed to give students a broad overview of the water and wastewater fields and the issues confronting the industry. The students will learn how source waters are obtained, treated, and distributed and how wastewater is collected, transported and</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p>
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<p>disposed of in the area. Contemporary issues facing the water and wastewater industry will also be 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>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*102 Calculations in Water and Wastewater Technology</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>The study of the mathematical principles in solving problems related to treatment systems including hydraulic volumes, dimensional analysis, primary and secondary sewage treatment, calculations and chemical dose rates as it relates to water/wastewater technology.</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> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*104 Basic Hydraulics</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032 and WATR 102, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>A study of the hydraulics necessary in the operation of water and maintenance plants and systems. There will be consideration of the types of pumps used in water and/or wastewater service, their operational characteristics and maintenance, and the problems common to their use.</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><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*106 Introduction to Electrical and Instrumentation Processes</b> 3.00 hours lecture, .00 hours lab, 3.00 units</p> <p><b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032 and WATR 102, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>An introductory course in basic electron theory and electrical principles. Electrical safety precautions, component identification, schematic interpretation, motors, transformers, relays, and test equipment will be studied. Automated process control devices and an overview of current technologies will be discussed.</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><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*110 Laboratory Analysis for Water/Wastewater Technology</b> 3.00 hours lecture, .00 hours lab, 3.00 units</p> <p><b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032 and WATR 102 , each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>Examines basic fundamentals of laboratory analysis with emphasis on applied chemical and microbiological procedures for water and wastewater plant operators. Course will include procedures and techniques used in physical, chemical, bacteriological and biological examination of water/wastewater.</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><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Actions Approved March 11, 2004**

**Water And Wastewater Technology (WATR )**

<p><b>*112 Basic Plant Operations: Water Treatment</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032 and WATR 102, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>Designed to study sources of water, public health aspects of water supply, chemical, physical and bacteriological standards of water quality, types of water treatment plants, water treatment procedures, operation, maintenance, storage and distribution.</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><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*114 Basic Plant Operations: Wastewater Treatment</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032 and WATR 102, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>Designed to familiarize the student with wastewater collection systems and the essential safety procedures necessary to their operation, including preliminary and primary treatment processes and maintenance of a wastewater treatment plant.</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><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Curriculum Instructional Council  
Curriculum Summary**

**Approved**

**Actions Approved March 11, 2004**

**Water And Wastewater Technology (WATR )**

<p><b>*117 Advanced Plant Operations: Water Treatment</b> 3.00 hours lecture, .00 hours lab, 3.00 units</p> <p><b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032 and WATR 112, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>A course designed to study water quality control and treatment. Aspects of public health as they relate to water supply will be highlighted. Sources of contamination and methods of control will be emphasized as well as maintenance of water treatment facilities with safety cost and environment factors stressed.</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><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*120 Advanced Plant Operations: Wastewater Treatment</b> 3.00 hours lecture, .00 hours lab, 3.00 units</p> <p><b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032 and WATR 114, each with a grade of "C" or better, or equivalent, or W5/R5/M20.</p> <p>Designed to familiarize the students with wastewater collection systems; treatment process units; equipment and facilities operation and maintenance; application of laboratory results to process control; and essential safety procedures necessary for operation and maintenance of wastewater facilities.</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><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Curriculum Instructional Council  
Curriculum Summary**

**Approved**

**Actions Approved March 11, 2004**

**Water And Wastewater Technology (WATR )**

<p><b>*130 Water Distribution Systems</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032, each with a grade of "C" or better, or equivalent, or W5/R5/M20. This course is designed to enable the student to understand the operation and maintenance of a waterworks distribution system.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required <b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*132 Wastewater Collection Systems</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032, each with a grade of "C" or better, or equivalent, or W5/R5/M20. This course is designed to familiarize the student with the components of wastewater collection systems. The course will overview design installation, operation, monitoring, maintenance, and repair of sewer pipelines, pump stations, and related facilities.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required <b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable.</p> <p><b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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**Water And Wastewater Technology (WATR )**

<p><b>*134 Mechanical Maintenance</b> 3.00 hours lecture, .00 hours lab, 3.00 units <b>Grade Only</b></p> <p><b>REQUISITES:</b> Advisory: ENGL 051 and ENGL 056 and MATH 032, each with a grade of "C" or better, or equivalent, or W5/R5/M20. This course is designed to familiarize the student with the basic principles of mechanical equipment design, installation, operation, maintenance, repair, overhaul, and replacement. Emphasis will be placed on understanding the value of preventative maintenance techniques such as: equipment monitoring, lubrication analysis, machine alignment, and scheduled overhaul.</p> <p><b>FIELD TRIP REQUIREMENTS:</b> May be required <b>TRANSFER APPLICABILITY:</b> Associate Degree Credit only and not Transferable. <b>CAN DATA:</b> None</p>	<p><b>Offered At:</b> Mesa</p> <p><b>Action(s) Proposed:</b> Course Deactivation (not at any College) <i>Approved</i></p> <p><b>Proposed For College(s):</b> Mesa</p> <p><b>Originating Campus:</b> Mesa</p> <p><b>Effective:</b> Fall 2004</p>
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\*Requires Board of Trustees approval prior to implementation.

**Curriculum Instructional Council  
Curriculum Summary**

**Approved**

**Actions Approved March 11, 2004**

**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.)

**\*Business Studies – Computer Technology Software Applications Emphasis**

Deactivate Program - Proposed for College(s) City College, PID # 947, Effective: Fall 2004

***Approved***

**Business Studies – Small Business Management Emphasis**

Revise Program – Proposed for College(s) City College, PID # 915, Effective: Fall 2004

***Approved***

**Labor Studies**

Revise Program – Proposed for College(s) City College, PID # 954, Effective: Fall 2004

***Approved***

**\*Water and Wastewater Technology**

Deactivate Program – Proposed for College(s) Mesa College, PID 937, Effective: Fall 2004

***Approved***