

EL CAMINO COLLEGE
MINUTES OF THE COLLEGE CURRICULUM COMMITTEE
FEBRUARY 23, 2010

Present: F. Arce, J. Davidson, S. Gates, A. Himsel, R. Hughes, B. Jaffe, L. Kjeseth, M. Lipe, V. Lloyd, E. Martinez, M. Odanaka, S. Panksi, V. Rayford, J. Sims, J. Thompson

Ex-Officio Members Present: J. Casper, Q. Chapman, M. Hall, L. Suekawa, J. Young

Ex-Officio Members Absent: R. Brown, R. Smith

Also Present: F. Baker, C. Fitzsimons, B. Knapp, J. Meredith, G. Miranda, J. Schwartz, J. Shankweiler

CALL TO ORDER

Chair Kjeseth called the College Curriculum Committee (CCC) meeting to order at 2:31 p.m.

APPROVAL OF MINUTES

- The minutes from the December 8th meeting were sent via email at the end of the fall semester and approved before today's meeting. Chair Kjeseth thanked the committee for the continued success of reviewing and approving the minutes electronically in a timely manner.

VICE PRESIDENT'S REPORT

- F. Arce thanked the committee for their hard work.
- He has recently discussed with Chair Kjeseth articulation concerns regarding the development of new courses.
- F. Arce expressed the need for proper documentation in the introduction of new courses that are intended to be offered at the lower division level. The committee should be more rigorous in their review of the curriculum.
- F. Arce also would like the committee to be aware of the need to articulate courses at our feeder schools where our students are most likely to transfer (CSULB, UCLA, CSULA). The committee should require that faculty show evidence that courses articulate at a minimum of three community colleges and three California State Universities.
- It is a disservice to students, taking more units than they need, and majors they would not use.
- The committee was advised to be more cautious and to keep student needs as the primary focus of curriculum.
- Chair Kjeseth stated that he will also discuss these issues with the committee at a later time. In preparation for CurricUNET, we will also continue training on reviewing new course proposals.

SPECIAL REPORT

- Past CCC Chair Janet Young wished to express her gratitude for the Spa Gift from the Committee – she thoroughly enjoyed her day at La Dolce Vita.

CHAIR'S REPORT

- The Chair's report will be given after Curriculum Review.

CURRICULUM REVIEW

Behavioral and Social Sciences Proposals

- G. Miranda, Dean of Behavioral and Social Sciences, distributed errata sheets to the committee for course revisions.
- Per Chair Kjeseth, all grammatical changes were included.
- Economics 5 – No questions were asked.
- History 163 – Online addendum was included. No questions were asked.
- Philosophy 23 – Course objectives #8 and #12 were questioned and resolved with no changes.
- Chair Kjeseth called for a motion to approve the course proposals and new distance education versions. S. Panski moved, M. Lipe seconded, and the motion was carried.

Fine Arts Proposals

- C. Fitzsimons, Dean of Fine Arts, distributed errata sheets to the committee for course revisions.
- Art 82abcd – C. Fitzsimons fielded a question from the committee on the conditions of enrollment now added as prerequisite and recommended preparation removed. Chair Kjeseth explained that the conditions of enrollment were reviewed and the faculty determined that they were appropriate.
- Art 83abcd – No questions were asked.
- Art 87ab – No questions were asked.
- Theatre 75abcd – There was discussion regarding the text in Course Objective #1. This was resolved with no changes.
- Chair Kjeseth called for a motion to approve the course revisions and conditions of enrollment. M. Lipe moved, J. Davidson seconded, and the motion was carried.
- Speech Communication - Chair Kjeseth also called for a motion to approve revision to major. M. Lipe moved, J. Thompson seconded, and the motion was carried.

Health Sciences and Athletics Proposals

- J. Schwartz, Interim Dean of Health Sciences and Athletics, first shared with the committee the fact that the Men's Intercollegiate Baseball Team has an outstanding record of 8-1. He then distributed errata sheets to the committee for course revisions.
- Physical Education 5ab – The catalog description was explained. Course Objective #3 was clarified. In Outline of Subject Matter, Major Topics IV was corrected to remove reference to South Coast conference.
- Physical Education 75ab – No questions were asked.
- Physical Education 130ab – There was a question regarding repeatability issues. Q. Chapman stated the changes have been done and approved.

- Per Chair Kjeseth, the following courses were updated regarding repeatability and unit changes: Physical Education 15ab, 35ab, 45ab, 60ab, 65ab, 85ab, 87ab, 105ab and 115ab. The following courses were updated to reflect modification of catalog description to remove reference to South Coast conference: Physical Education 20ab, 25ab and 125ab.
- Chair Kjeseth called for a motion to approve the course proposals and the conditions of enrollment. M. Lipe moved, A. Himsel seconded, and the motion was carried.

Natural Sciences Proposals

- J. Shankweiler, Dean of Natural Sciences, distributed errata sheets to the committee for course revisions.
- Astronomy 13abc – All recommendations were accepted and completed. There were no questions asked.
- Chair Kjeseth called for a motion to approve course proposal. J. Thompson moved, M. Lipe seconded, and the motion was carried.

CHAIR'S REPORT

- CurricUNET training (an overview of all things related to courses) will begin next week. Training will be held in Life Science Room 134 from 2:30 p.m. until 4:00 p.m. After a one week break, more training will take place beginning the third week of March, with three to four trainings per week. CurricUNET should go live later in the semester. Training for Compton to be determined (there is an available lab – C29 – there for training purposes). CCC will have a series of three trainings. Chair Kjeseth asked if any CCC members would be interested in becoming a CurricUNET trainer.
- In regards to faculty cooperation across departments and divisions, there should be a draft of guidelines – how we work as a committee outside the meeting room. We need to keep open the lines of communication.
- Course review – 6 year or 4 year cycle? Chair Kjeseth stated that a 4 year course review cycle would be technically possible if: 1.) the committee reviewed approximately 380-400 courses per year without any new business, 2.) changed to 15 hours of flex, and 3.) there was substantial additional re-assigned time for Committee Chair, at least double the traditional 30%. He then asked for comments from the CCC members. Comments, concerns and suggestions included:
 - 4 year cycle may be too fast.
 - Check and see what other schools are doing.
 - Must first succeed at 6 year cycle.
 - Program review is every 4 years – does it make sense to also do course review every 4 years?
 - Commission needs evidence the review has led to institutional change.
- Terms are ending for CCC representatives in 4 divisions (Fine Arts, Health Sciences and Athletics, Industry and Technology, and Natural Sciences). CCC representatives must be elected and not assigned to the position. New representatives will serve the 2010-2013 term.
- Next CCC Chair – So far no one has stepped forward. B. Jaffe and J. Thompson are coordinating the election, nominations will be made at the 3rd meeting, and elections will be held at our 4th meeting this spring.

- Program Discontinuance Policy
 - Need faculty member to coordinate – should be from CCC.
 - Next meeting is Wednesday, March 10 from 12:30 p.m. to 2:00 p.m. in the Board Room.

CONSENT AGENDA PROPOSALS

- The committee reviewed the consent agenda proposals. There were 12 course proposals on the agenda – Behavioral and Social Sciences (2), Business (2), Fine Arts (5) and Natural Sciences (3).
- After review of the Consent Agenda, Chair Kjeseth asked for a motion to approve the proposals. S. Panski moved, V. Rayford seconded, and the motion was carried.

GENERAL EDUCATION PROPOSAL

- Chair Kjeseth and L. Suekawa discussed the proposal and handout of the first reading.
- CCC discussion – Will need to approve changes to Areas 1, 2 and 3 at next CCC meeting.
- L. Suekawa will take proposal for Area 5 to AA/AS Task Force meeting.
- Need more options of courses to satisfy General Education requirements for students.
- Next meeting – Second reading, CCC is expected to vote for approval.

ANNOUNCEMENTS

- Q. Chapman – Copies of the Program and Course Approval Handbook are available on the side table for any members who wish to take copies back to their division.

ADJOURNMENT

- Chair Kjeseth called for a motion to adjourn the meeting. R. Hughes moved, A. Himsel seconded, and the motion carried. The meeting was adjourned at 4:25 p.m.

**EL CAMINO COLLEGE
COLLEGE CURRICULUM COMMITTEE**

**Proposed Curriculum Changes
February 23, 2010**

BEHAVIORAL AND SOCIAL SCIENCES DIVISION

COURSE REVIEW

1. Economics 5 – Fundamentals of Economics
2. History 163 – History of Modern Britain
3. Philosophy 23 – Ethics, Law and Society

COURSE REVIEW; DISTANCE EDUCATION UPDATE

1. Philosophy 3 – Ethics and Society
2. Political Science 1 – Governments of the United States and California

NEW DISTANCE EDUCATION VERSIONS

1. Economics 5 - Fundamentals of Economics
2. History 163 – History of Modern Britain
3. Philosophy 23 - Ethics, Law and Society

BUSINESS DIVISION

**COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION; DISTANCE
EDUCATION UPDATE**

1. Computer Information Systems 140 – Data Communications Cisco I
Current Status/Proposed Change
In this class, This course introduces students will become familiar with the terminology and technology used in data communications. The class uses to fundamental networking concepts and technologies. Students will learn the skills necessary to plan and implement small networks across a range of applications. The course uses concepts of both hardware and software in order to understand principles of communication

theory. This class is technically oriented and ~~may be appropriate~~ will prepare students for industry certification programs.

Note: This course is semester one in the Cisco Networking Academy program.

Recommendation:

This course introduces students to fundamental networking concepts and technologies. Students will learn the skills necessary to plan and implement small networks across a range of applications. The course uses concepts of both hardware and software in order to understand principles of communication theory. This class is technically oriented and will prepare students for industry certification.

Note: This course is semester one in the Cisco Networking Academy program.

2. Computer Information Systems 141 – Networking Microcomputers Cisco 2

Current Status/Proposed Change

In this ~~class~~ course students will develop an understanding of how a router learns about remote networks and determines the best path to those networks. This course includes both static routing and dynamic routing protocols. Students will become familiar with the terminology and technology used to design and build local and wide area networks. The course will also focus on routing protocols and concepts.

Note: This course is semester two in the Cisco Networking Academy program.

Recommendation:

In this course students will develop an understanding of how a router learns about remote networks and determines the best path to those networks. This course includes both static routing and dynamic routing protocols. Students will become familiar with the terminology and technology used to design and build local and wide area networks. The course will also focus on routing protocols and concepts.

Note: This course is semester 2 in the Cisco Networking Academy program.

FINE ARTS DIVISION

COURSE REVIEW

1. Art 81ab – Beginning Sculpture
2. Art 141abcd – Digital Art

COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION

1. Art 7 – Art History of Mexico and Central and South America

Current Status/Proposed Change

This course ~~is a survey of the art of Pre-Columbian civilizations in Mexico, and Central America, and South America, with emphasis on the development of Mexican~~

~~art from the Spanish Colonial period~~ Pre-Colombian civilizations through contemporary times. Key artworks are studied in relation to historical and cultural contexts that consider the effects of shifting social, political, philosophical, and spiritual paradigms on the production of art.

Recommendation:

This course surveys the art of Mexico, Central America, and South America, from Pre-Colombian civilizations through contemporary times. Key artworks are studied in relation to historical and cultural contexts that consider the effects of shifting social, political, philosophical, and spiritual paradigms on the production of art.

2. Art 31abcd – Three-Dimensional Design

Current Status/Proposed Change

This course is an introduction to the concepts and processes of three-dimensional design. Students ~~will~~ design and construct projects involving linear and architectural models as well as relief and solid forms. Emphasis is placed on creative solutions to design problems using various construction techniques and materials.

Recommendation:

This course is an introduction to the concepts and processes of three-dimensional design. Students design and construct projects involving linear and architectural models as well as relief and solid forms. Emphasis is placed on creative solutions to design problems using various construction techniques and materials.

3. Dance 20abcd – Body Conditioning for Dance Techniques

Current Status/Proposed Change

In ~~¶~~ this course covers, students are introduced to the principles of ballet-based technique through exercise systems specific to dance training. Class activities emphasize alignment, placement, strength, injury prevention, and efficient joint articulation. Muscle and skeletal terminology as well as basic ballet terminology are introduced. This class is appropriate for dancers at all levels, including those beginning dance training and those returning after an injury or period of inactivity.

Recommendation:

In this course, students are introduced to the principles of ballet-based technique through exercise systems specific to dance training. Class activities emphasize alignment, placement, strength, injury prevention, and efficient joint articulation. Muscle and skeletal terminology as well as basic ballet terminology are introduced. This class is appropriate for dancers at all levels, including those beginning dance training and those returning after an injury or period of inactivity.

**COURSE REVIEW; CHANGES IN CONDITIONS OF ENROLLMENT
(Prerequisite, Corequisite, Recommended Preparation, or Enrollment Limitation)**

1. Art 87ab – Beginning Printmaking

Current Status/Proposed Change

Prerequisite: ~~one semester of Art 10ab with a minimum grade of C~~ None

Recommendation:

Prerequisite: None

**COURSE REVIEW; CHANGES IN CONDITIONS OF ENROLLMENT
(Prerequisite, Corequisite, Recommended Preparation, or Enrollment Limitation),
CATALOG DESCRIPTION**

1. Art 82abcd – Life Sculpture

Current Status/Proposed Change

Prerequisite: one semester of Art 17ab or Art 31abcd or Art 61ab or Art 81ab with a minimum grade of C or equivalent experience

Recommended Preparation: Art 81ab

This course explores the anatomical structure of the human figure through sculptural studies. Students will develop technical and creative skills, including observation, drawing, and modeling. Students will work from live models.

~~Note: This course is offered in the fall semester only~~

Recommendation:

Prerequisite: one semester of Art 17ab or Art 31abcd or Art 61ab or Art 81ab with a minimum grade of C or equivalent experience

Recommended Preparation: Art 81ab

This course explores the anatomical structure of the human figure through sculptural studies. Students will develop technical and creative skills including observation, drawing, and modeling. Students will work from live models.

2. Theatre 75abcd – Student Performance Production Workshop

Current Status/Proposed Change

Recommended Preparation: completion of or concurrent enrollment in the following:

1. Student performers: Theatre 8 or 14A

2. Student directors: Theatre 40A

~~3. Student crews: Theatre 84 or 90 or 92 or 97abcd; eligibility for English 84~~

This course is a theatre workshop in which students participate in a production under faculty supervision as directors, ~~designers, actors, or crew performers.~~

Recommendation:

Recommended Preparation: completion of or concurrent enrollment in the following:

1. Student performers: Theatre 8 or 14A
2. Student directors: Theatre 40A

This course is a theatre workshop in which students participate in a production under faculty supervision as directors or performers.

COURSE REVIEW; CHANGES IN CONDITIONS OF ENROLLMENT (Prerequisite, Corequisite, Recommended Preparation, or Enrollment Limitation), TRANSFER STATUS, CATALOG DESCRIPTION

1. Art 83abcd – Bronze Casting

Current Status/Proposed Change

Prerequisite: one semester of Art 31abcd or Art 61ab or Art 81ab with minimum grade of C ~~or one semester of Art 31abcd with a minimum grade C~~ or equivalent experience

Proposed UC Transfer

This course is an introduction to the aesthetics and processes used in the making of bronze sculpture. Topics ~~covered~~ include the elements of sculptural design, wax formulation and fabrication, the spruing process, the investing of wax patterns, mold making, finishing techniques, and bronze foundry procedures.

Recommendation:

Prerequisite: one semester of Art 31abcd or Art 61ab or Art 81ab with minimum grade of C or equivalent experience

Proposed UC Transfer

This course is an introduction to the aesthetics and processes used in the making of bronze sculpture. Topics include the elements of sculptural design, wax formulation and fabrication, the spruing process, the investing of wax patterns, mold making, finishing techniques, and bronze foundry procedures.

CHANGE IN MAJOR

1. ~~Speech~~ Communication Studies

Current Status/Proposed Change

~~Speech~~ Communication Studies 1, 4 ~~English 1A~~; a minimum of ~~15~~ 16 units from ~~Speech~~ Communication Studies 3, 4, 5, 6abcd, 7, 8, 9, 11, 12, 14, 22abcd, 23abcd, 24abcd, 25abcd (~~four semesters of Speech Communication 24abcd and four semesters of Speech Communication 25abcd can be applied toward the major requirements~~)

Total Units: 22

At least 12 units must be completed at El Camino College.

Recommendation:

Communication Studies

Communication Studies 1, 4; a minimum of 16 units from Communication Studies 3, 5, 6abcd, 7, 8, 9, 11, 12, 14, 22abcd, 23abcd, 24abcd, 25abcd

Total Units: 22

At least 12 units must be completed at El Camino College.

HEALTH SCIENCES AND ATHLETICS DIVISION

COURSE REVIEW; CHANGES IN NUMBER, UNITS, CATALOG DESCRIPTION

1. Physical Education 5abc – Men’s Intercollegiate Baseball Team

Current Status/Proposed Change

Units: ~~2~~ 3

This course provides instruction, training, and practice in the advanced techniques of baseball and the opportunity for intercollegiate competition. Students will compete against ~~member conference schools of the South Coast Conference~~ and other colleges.

Note: This course is offered in the spring semester only.

Recommendation:

Physical Education 5abc – Men’s Intercollegiate Baseball Team

Units: 3

This course provides instruction, training, and practice in the advanced techniques of baseball and the opportunity for intercollegiate competition. Students will compete against conference schools and other colleges.

Note: This course is offered in the spring semester only.

2. Physical Education 20abc – Women’s Intercollegiate Cross Country Team

Current Status/Proposed Change

Units: ~~2~~ 3

This course provides instruction, training, and practice in the advanced techniques of cross-country training and the opportunity for intercollegiate competition ~~raeing~~. Students will compete against conference ~~teams from member schools of the South Coast Conference~~ and other colleges.

Note: This course is offered in the fall semester only.

Recommendation:

Physical Education 20abc – Women’s Intercollegiate Cross Country Team

Units: 3

This course provides instruction, training, and practice in the advanced techniques of cross-country training and the opportunity for intercollegiate competition. Students will compete against conference schools and other colleges.

Note: This course is offered in the fall semester only.

3. Physical Education 25abc – Men’s Intercollegiate Cross Country Team

Current Status/Proposed Change

Units: ~~2~~ 3

This course provides instruction, training, and practice in the advanced techniques of cross-country training and the opportunity for intercollegiate competition racing. Students will compete against conference teams from member schools of the South Coast Conference and other colleges.

Recommendation:

Physical Education 25abc – Men’s Intercollegiate Cross Country Team

Units: 3

This course provides instruction, training, and practice in the advanced techniques of cross-country training and the opportunity for intercollegiate competition. Students will compete against conference schools and other colleges.

Note: This course is offered in the fall semester only.

4. Physical Education 75abc – Men’s Intercollegiate Track and Field Team

Current Status/Proposed Change

Units: ~~2~~ 3

This course provides instruction, training, and practice in the advanced techniques of track and field. Students will have the opportunity for intercollegiate competition and will compete against ~~member techniques of track and field. Students will compete against member~~ conference schools of the South Coast Conference and other colleges.

Note: This course is offered in the spring semester only.

Recommendation:

Physical Education 75abc – Men’s Intercollegiate Track and Field Team

Units: 3

This course provides instruction, training, and practice in the advanced techniques of track and field. Students will have the opportunity for intercollegiate competition and will compete against conference schools and other colleges.

Note: This course is offered in the spring semester only.

5. Physical Education 125abc – Women’s Intercollegiate Swimming Team

Current Status/Proposed Change

Units: ~~2~~ 3

This course provides instruction, training, and practice in the advanced techniques of swim ~~training~~ and the opportunity for intercollegiate competition. Students will compete against ~~teams from member~~ conference schools of the South Coast Conference and other colleges.

Note: This course is offered in the spring semester only.

Recommendation:

Physical Education 125abc – Women’s Intercollegiate Swimming Team

Units: 3

This course provides instruction, training, and practice in the advanced techniques of swimming and the opportunity for intercollegiate competition. Students will compete

against conference schools and other colleges.

Note: This course is offered in the spring semester only.

6. Physical Education 130abc – Women’s Intercollegiate Track and Field Team

Current Status/Proposed Change

Units: ~~2~~ 3

This course provides instruction, training, and practice in the advanced techniques of track and field. Students will have the opportunity for intercollegiate competition and will compete against member conference schools of the South Coast Conference and other colleges.

Note: This course is offered in the spring semester only.

Recommendation:

Physical Education 130abc – Women’s Intercollegiate Track and Field Team

Units: 3

This course provides instruction, training, and practice in the advanced techniques of track and field. Students will have the opportunity for intercollegiate competition and will compete against conference schools and other colleges.

Note: This course is offered in the spring semester only.

CHANGES IN NUMBER, UNITS

1. Physical Education 15abc – Men’s Intercollegiate Basketball Team

Current Status/Proposed Change

Units: ~~2~~ 3

Recommendation:

Physical Education 15abc – Men’s Intercollegiate Basketball Team

Units: 3

2. Physical Education 35abc – Men’s Intercollegiate Football Team

Current Status/Proposed Change

Units: ~~2~~ 3

Recommendation:

Physical Education 35abc – Men’s Intercollegiate Football Team

Units: 3

3. Physical Education 45abc – Men’s Intercollegiate Golf Team

Current Status/Proposed Change

Units: ~~2~~ 3

Recommendation:

Physical Education 45abc – Men’s Intercollegiate Golf Team

Units: 3

4. Physical Education 60abc – Women’s Intercollegiate Soccer Team
Current Status/Proposed Change
Units: ~~2~~ 3

Recommendation:

Physical Education 60abc – Women’s Intercollegiate Soccer Team
Units: 3

5. Physical Education 65abc – Men’s Intercollegiate Tennis Team
Current Status/Proposed Change
Units: ~~2~~ 3

Recommendation:

Physical Education 65abc – Men’s Intercollegiate Tennis Team
Units: 3

6. Physical Education 85abc – Men’s Intercollegiate Water Polo Team
Current Status/Proposed Change
Units: ~~2~~ 3

Recommendation:

Physical Education 85abc – Men’s Intercollegiate Water Polo Team
Units: 3

7. Physical Education 87abc – Women’s Intercollegiate Water Polo Team
Current Status/Proposed Change
Units: ~~2~~ 3

Recommendation:

Physical Education 87abc – Women’s Intercollegiate Water Polo Team
Units: 3

8. Physical Education 105abc – Women’s Intercollegiate Basketball Team
Current Status/Proposed Change
Units: ~~2~~ 3

Recommendation:

Physical Education 105abc – Women’s Intercollegiate Basketball Team
Units: 3

9. Physical Education 115abc – Women’s Intercollegiate Tennis Team
Current Status/Proposed Change

Units: ~~2~~ 3

Recommendation:

Physical Education 115abc – Women’s Intercollegiate Tennis Team

Units: 3

NATURAL SCIENCES DIVISION

COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION

1. Anatomy 30 – Essentials of Anatomy and Physiology

Current Status/Proposed Change

This course is ~~a comparative~~ the study of anatomy and coupled with physiology. ~~in the human~~ Students compare the structure and function of human organ systems to those of other vertebrates. ~~animals such as a fetal pig, cat, or frog. Students will perform~~ The laboratory includes ~~dissections of a vertebrate animal, sheep brains, sheep and hearts, and cows’ eyes and other vertebrates.~~ The structure and function of the organ systems of humans and the similarity to other vertebrate animals are discussed. ~~Laboratory experiments are performed by students to reinforce principles of anatomy discussed in lecture. In addition, and~~ the basic principles of chemistry, cell biology, histology, embryology, and genetics, will be addressed

Note: ~~This course is designed primarily for non-professional majors but may meet satisfy~~ the anatomy requirements for two-year RN programs and some other health-related programs. ~~This course is It does not designed to meet satisfy~~ the requirements for the Bachelor of Science in nNursing, and other pre-professional programs.

Recommendation:

This course is the study of anatomy coupled with physiology. Students compare the structure and function of human organ systems to those of other vertebrates. The laboratory includes dissection of sheep brains and hearts, cow eyes and other vertebrates. Laboratory experiments reinforce principles of anatomy and the basic principles of chemistry, cell biology, histology, embryology, and genetics.

Note: This course may satisfy the anatomy requirements for two-year RN and other health-related programs. It does not satisfy the requirements for the Bachelor of Science in Nursing.

2. Biology 16 – Field Entomology

Current Status/Proposed Change

This is a survey course in insect biology, taxonomy, physiology, and ecology, ~~with some discussion of and considers~~ the methods and economic importance and control of controlling insects populations. ~~Major insect orders and families will be are~~ introduced through lecture with slides and live and preserved specimens. Emphasis is placed on learning how to use a key to identify insect specimens in the laboratory and to

~~recognizing~~ recognize them in the field. Field trips to local sites, ~~including~~ local desert and coastal mountain habitats will be taken to practice collection, preparation, and recognition techniques.

Recommendation:

This is a survey course in insect biology, taxonomy, physiology, and ecology, and considers the methods and economic importance of controlling insect populations. Major insect orders and families are introduced through lecture with slides and live and preserved specimens. Emphasis is placed on learning how to identify insect specimens in the laboratory and to recognize them in the field. Field trips to local sites, local desert and coastal mountain habitats will be taken to practice collection, preparation, and recognition techniques.

3. Horticulture 44 – Ecology of Edible, Medicinal and Poisonous Plants

Current Status/Proposed Change

In this course, students will develop an awareness and appreciation of edible, medicinal and poisonous plants and their effect on humans over the centuries. Students will survey ornamental and native plant communities with emphasis on flowering plants, ecology, economic uses, and identification. Students will perform lab work primarily in the field. Field lab sites will be in the chaparral, forest, and desert.

Recommendation:

In this course, students will develop an awareness and appreciation of edible, medicinal and poisonous plants and their effect on humans over the centuries. Students will survey ornamental and native plant communities with emphasis on flowering plants, ecology, economic uses, and identification. Students will perform lab work primarily in the field. Field lab sites will be in the chaparral, forest, and desert.

**COURSE REVIEW; CHANGES IN CONDITIONS OF ENROLLMENT
(Prerequisite, Corequisite, Recommended Preparation, or Enrollment Limitation),
CATALOG DESCRIPTION**

1. Astronomy 13abc – Astronomical Optics

Current Status/Proposed Change

Recommended Preparation: Astronomy 20 or 25 or equivalent with a grade of B or better; Mathematics ~~70~~ 73 or 80

In this course, the student will be introduced to principles of astronomical optics. The student will apply those principles to the design, fabrication, and use of a telescope, which will be tested under the night sky. Primary mirrors ~~are~~ will be ground, smoothed, polished, and figured by hand. Extensive testing ~~is~~ will be done in the optical shop. ~~Optical Optics~~ and optical testing theories ~~are~~ will be presented. Students will design and build a custom optical tube assembly ~~for their primary mirror as well as a~~ and telescope mount.

Note: Minimum cost for a completed telescope is \$250.

Recommendation:

Recommended Preparation: Astronomy 20 or 25 or equivalent with a grade of B or better; Mathematics 73 or 80

In this course, the student will be introduced to principles of astronomical optics. The student will apply those principles to the design, fabrication, and use of a telescope, which will be tested under the night sky. Primary mirrors will be ground, smoothed, polished, and figured by hand. Extensive testing will be done in the optical shop.

Optics and optical testing theories will be presented. Students will design and build a custom optical tube assembly and telescope mount.

Note: Minimum cost for a completed telescope is \$250.