EL CAMINO COLLEGE
MINUTES OF THE COLLEGE CURRICULUM COMMITTEE
OCTOBER 27, 2009

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

Members Absent : F. Arce, J. Davidson, S. Panski, J. Thompson

Ex-Officio Members Present: Q. Chapman, J. Harmon, L. Suekawa

Ex-Officio Members Absent: M. Hall, R. Smith, J. Young

Also Present: F. Baker, R. Elton-Collett, R. Firestone, B. Gibson, T. Jackson, B. Knapp, J. Meredith, G. Miranda, T. Palos, J. Schwartz, E. Shadish, J. Shankweiler

CALL TO ORDER

Chair Kjeseth called the College Curriculum Committee (CCC) meeting to order at 2:37 p.m.

APPROVAL OF MINUTES

Chair Kjeseth announced that the minutes from the October 13th CCC meeting will be available for review by Friday.

CHAIR'S REPORT

- After curriculum reivew, Chair Kjeseth will get feedback from committee members who attended the Accredidation Exit Review meeting.

CURRICULUM REVIEW

Behavioral and Social Sciences Proposals

- G. Miranda, Dean of Behavioral and Social Sciences, presented five new course proposals – Anthropology 12, History 114, History 190, Philosophy 12, and Philosophy 14. She also introduced faculty members from her division, B. Gibson, F. Baker and R. Firestone.
- G. Miranda announced that the division has completed their course review cycle for the academic year and has been working towards enhancing their curriculum. The new courses offers breadth and depth. Three of the courses were developed based on grant stipulations.
- She distributed errata sheets, then began with a review of Anthropoligy 12 and History 114. There were no questions.
- History 190 (grant project course) was reviewed. G. Miranda accepted the recommendation from the committee on the proposals form, section 3.1.
- Philosophy 12 and Philosophy 14 – no questions. G. Miranda introduced an additional faculty member, E. Shadish.

- Chair Kjeseth asked for a motion to approve the new course proposals, conditions of enrollment, and the distance education course versions for each. A. Himsel moved, V. Lloyd seconded, and the motion carried.

Natural Sciences Proposals

- J. Shankweiler, Dean of Natural Sciences, distributed errata sheets and introduced T. Palos from the Life Sciences department.
- She informed the committee that as a result of STEM grant funds, the deparment is working towards developing a Biotechnology certificate.
- The two new courses being presented today are Biotechonogly 1 and Biotechnology 2.
- She began with a review of Biotechnology 1. There were no questions. However, Chair Kjeseth took this opportunity to explain to the committee the rationale for the course units revision.
- J. Shankweiler concluded with a review of Biotechnology 2 and explained where revisions were made. There were no futher questions.
- The standard language for textbooks that are more than five years old was clarified for the committee.
- Chair Kjeseth asked for a motion to approve the new courses and conditions of enrollment. V. Lloyd moved, M. Lipe seconded, and the motion carried.

Health Sciences and Health Proposals

- J. Schwartz, Interim Dean of Health Sciences and Athletics, distributed errata sheets to the committee for course review proposals – Physical Education 201, Physical Education 270 and Radiologic Technology 111.
- He began with a review of Physical Education 201 and accepted the recommendation from the committee on major topics, and text and materials.
- He concluded with a review of Radiologic Technology 111.
- Chair Kjeseth called for a motion to approve the course revisions and conditions of enrollment. M. Lipe moved, B. Jaffe seconded, and the motion carried.

Industry and Technology Proposals

- T. Jackson, Associate Dean of Industry and Technology, distributed errata sheets to the committee for course review proposal – Fire and Emergency Technology 128.
- T. Jackson accepted the recommendation from the committee on the major topics. There was a brief discussion on hours/units and the descriptive title.
- Chair Kjeseth asked for a motion to approve the course revision and conditions of enrollment. R. Hughes moved, V. Lloyd seconded, and the motion carried.

CONSENT AGENDA PROPOSALS

- The committee reviewed the consent agenda proposals. There were 26 course proposals on the agenda – Business (4), Health Sciences and Athletics (7), and Industry and Technology (15).
- After review, Chair Kjeseth called for a motion to approve the Consent Agenda, including the conditions of enrollment. V. Rayford moved, M. Lipe seconded, and the motion carried.

ANNOUNCEMENTS

ADJOURNMENT

Chair Kjeseth asked for a motion to adjourn the meeting. R. Hughes moved, M. Lipe seconded, and the motion carried. The meeting was adjourned at 3:57 p.m.

EL CAMINO COLLEGE
COLLEGE CURRICULUM COMMITTEE

Proposed Curriculum Changes
October 27, 2009

BEHAVIORAL AND SOCIAL SCIENCES

NEW COURSES

1. Anthropology 12 – Ancient Civilizations of the World
   Units: 3 Lecture: 3 hours Faculty Load: 20.00%
   Recommended Preparation: eligibility for English 1A
   Credit, degree applicable; Letter grade; Transfer CSU**;** Proposed Transfer UC
   This course traces the emergence of early states and ancient empires around the globe. The cultural achievements linked to state development are traced through a survey of evidence from both the archaeological and historical records. Students will be introduced to anthropological theories that seek to model and explain the appearance of state-level societies and empires.

2. History 114 – History of the Asian American in the United States
   Units: 3 Lecture: 3 hours Faculty Load: 20.00%
   Recommended Preparation: eligibility for English 1A
   Credit, degree applicable; Letter grade; Transfer CSU**;** Proposed Transfer UC
   This course surveys Asian American history in the United States from 1848 to the present, focusing on the historical interaction of diverse Asian American groups with American politics, culture, society and the economy. Unique Asian American communities and the historical factors that have formed and shaped them will also be examined.

3. History 190 – History of the Middle East
   Units: 3 Lecture: 3 hours Faculty Load: 20.00%
   Recommended Preparation: eligibility for English 1A
   Credit, degree applicable; Letter grade; Transfer CSU**;** Proposed Transfer UC
   This course provides an introduction to the political, economic, social, and cultural development of the Middle East from the earliest civilizations to the present. Topics include Muhammad and the origins of Islam, the early Islamic Empires, the development of Islamic civilization, and state building in the modern era.

4. Philosophy 12 - Existentialism
   Units: 3 Lecture: 3 hours Faculty Load: 20.00%
   Recommended Preparation: eligibility for English 1A
   Credit, degree applicable; Letter grade; Transfer CSU**;** Proposed Transfer UC
   This course will examine the philosophical thought of the two strands of existentialist writers: the religious existentialist such as Kierkegaard, Dostoevsky, and Heidegger, and the atheistic existentialists such as Nietzsche, Camus, and Sartre. Issues that will be examined include authenticity; free will; responsibility for one's character and actions; the essence, possibilities and limits of human beings; and the meaning of life.

5. Philosophy 14 – Asian Philosophy
   Units: 3 Lecture: 3 hours Faculty Load: 20.00%
   Recommended Preparation: eligibility for English 1A
   Credit, degree applicable; Letter grade; Transfer CSU**;** Proposed Transfer UC
   This course examines the central concerns, historic contexts and foundational themes of the diverse philosophical traditions of South and East Asia, including Confucianism, Taoism, Hinduism, Buddhism and Shintoism. Although some attention is given to Western ideas to which Asian thinkers have responded, the main emphasis is given to the different kinds of questions that have engaged Asian thinkers.

NEW DISTANCE EDUCATION VERSIONS

1. Anthropology 12 – Ancient Civilizations of the World (Online)

2. History 114 – History of the Asian American in the United States (Online)

3. History 190 – History of the Middle East (Online)

4. Philosophy 12 – Existentialism (Online)

5. Philosophy 14 – Asian Philosophy (Online)

BUSINESS DIVISION

COURSE REVIEW

1. Business 29 – Oral Business Communications

2. Supervision 27 – Oral Business Communications

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

1. Business 41 – Records/Information Management
   Current Status/Proposed Change
   Recommended Preparation: eligibility for English 84 or English A
   In this course, ~~the~~ students ~~will be~~ are introduced to the field of records/information management. Students learn the procedures of alphabetic, geographic, subject, and numeric filing and how to apply the alphabetic rules to the computer. Students also learn the principles of records retention and transfer and the various controls of a records/information management program.
   Note: This ~~course~~ class is offered in the spring semesters only.

   Recommendation:
   Recommended Preparation: eligibility for English 84 or English A
   In this course, students are introduced to the field of records/information management. Students learn the procedures of alphabetic, geographic, subject, and numeric filing and how to apply the alphabetic rules to the computer. Students also learn the principles of records retention and transfer and the various controls of a records/information management program.
   Note: This class is offered in the spring semesters only.

COURSE REVIEW; CHANGE IN TRANSFER STATUS

1. Business 49abcd – Voice Recognition for Computer Input
   Current Status/Proposed Change
   Transfer CSU

   Recommendation:
   Transfer CSU

HEALTH SCIENCES AND ATHLETICS DIVISION

COURSE REVIEW

1. Physical Education 402abcd – Adapted Swimming and Hydroexercise

COURSE REVIEW; CHANGES IN GRADING METHOD, CATALOG DESCRIPTION

1. Educational Development 8ab – Basic Mathematics Preparation for Deaf and Hard-of-Hearing Students

Current Status/Proposed Change
Grading Method: ~~Letter~~ Pass/No Pass
This is a self-paced developmental course designed for ~~d~~Deaf and ~~h~~Hard-of-~~h~~Hearing students ~~wishing~~ to ~~study~~ develop competence with basic mathematical ~~skills~~ operations. Topics ~~covered~~ include~~:~~ whole numbers ~~concepts~~, fractions and decimals. Emphasis is upon computational skills.
Note: This course is taught in American Sign Language and is designed for students who are Deaf and Hard-of-Hearing.

Recommendation:
Grading Method: Pass/No Pass
This is a self-paced developmental course designed for Deaf and Hard-of-Hearing students to develop competence with basic mathematical operations. Topics include whole numbers, fractions and decimals. Emphasis is upon computational skills.
Note: This course is taught in American Sign Language and is designed for students who are Deaf and Hard-of-Hearing.

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

1. Educational Development 9ab – Advanced Mathematics Preparation for Deaf and Hard-of-Hearing Students
   Current Status/Proposed Change
   Prerequisite: ~~one semester of~~ credit in Educational Development 8ab ~~with a minimum grade of C or equivalent~~
   Grading Method: ~~Letter~~ Pass/No Pass
   This is a self-paced developmental course designed for ~~d~~Deaf and ~~h~~Hard-of-~~h~~Hearing students ~~wishing~~ to ~~study~~ develop competence with advanced mathematical skills. Topics covered include~~:~~ ratios, proportions, percents, measurements, geometry, statistics, and algebra. Major emphasis is on solving verbal problems.
   Note: This course is taught in American Sign Language and is designed for students who are Deaf and Hard-of-Hearing.

   Recommendation:
   Prerequisite: credit in Educational Development 8ab
   Grading Method: Pass/No Pass
   This is a self-paced developmental course designed for Deaf and Hard-of-Hearing students to develop competence with advanced mathematical skills. Topics covered include ratios, proportions, percents, measurements, geometry, statistics, and algebra. Major emphasis is on solving verbal problems.
   Note: This course is taught in American Sign Language and is designed for students who are Deaf and Hard-of-Hearing.

COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION

1. Contemporary Health 1 – Personal and Community Health Issues
   Current Status/Proposed Change
   This ~~class~~ course is designed to provide a critical analysis of factors which affect personal and community health. Primary emphasis is placed upon self-empowerment and disease prevention in a culturally diverse community. General topics include communicable and non-communicable diseases~~,~~; physical fitness, weight management, and nutrition; human reproduction and sexuality; stress management and mental health; drug use and abuse; and environmental health.

   Recommendation:
   This course is designed to provide a critical analysis of factors which affect personal and community health. Primary emphasis is placed upon self-empowerment and disease prevention in a culturally diverse community. General topics include communicable and non-communicable diseases; physical fitness, weight management, and nutrition; human reproduction and sexuality; stress management and mental health; drug use and abuse; and environmental health.

2. First Aid 1 – First Aid, Cardiopulmonary Resuscitation (CPR) and Basic Emergency Care
   Current Status/Proposed Change
   This course follows the American ~~National~~ Red Cross Certification Program ~~of~~ for First Aid, ~~and~~ Basic Life Support (infant, child, adult and ~~2~~ two person CPR)~~.~~, and Automated External Defibrillation (AED). The course content includes an emphasis on prevention of injuries, safety education, and skills necessary to sustain life in the event of trauma or sudden illness. Demonstration of skill proficiency and passing written exams with 80% or better will qualify student~~s~~ for certification in American Red Cross First Aid, Community CPR, and Professional Rescuer CPR.

   Recommendation:
   This course follows the American Red Cross Certification Program for First Aid, Basic Life Support (infant, child, adult and two person CPR), and Automated External Defibrillation (AED). The course content includes an emphasis on prevention of injuries, safety education, and skills necessary to sustain life in the event of trauma or sudden illness. Demonstration of skill proficiency and passing written exams with 80% or better will qualify student~~s~~ for certification in American Red Cross First Aid, Community CPR, and Professional Rescuer CPR.

COURSE REVIEW; CHANGES IN FACULTY LOAD, LECTURE/LAB HOURS, CATALOG DESCRIPTION, CSU GENERAL EDUCATION REQUIREMENT

1. Physical Education 201 – Introduction to Adapted Physical Education

Current Status/Proposed Change
Lecture: 2 hours ~~Lab: 2 hours arranged~~ Faculty Load: ~~23.33~~ 13.33%
This course provides an introduction to Adapted Physical Education with an orientation to specific disabilities. ~~such as stroke, spinal cord injury and cerebral palsy.~~ Exercise theory and techniques will be discussed and wheelchair transfers will be practiced. ~~Students will learn the rationale and precautions for patient hospital bed positioning.~~ Consequences of disuse syndrome and fitness benefits of exercise will also be discussed. Students will gain practical experience working with students with disabilities who are enrolled in the Adapted Physical Education. ~~courses at El Camino College.~~ Students interested in pursuing careers in physical education, kinesiology, physical therapy, and nursing will find this course valuable.
Proposed CSU General Education Requirement – Area E

Recommendation:
Lecture: 2 hours Faculty Load: 13.33%
This course provides an introduction to Adapted Physical Education with an orientation to specific disabilities. Exercise theory and techniques will be discussed and wheelchair transfers will be practiced. Consequences of disuse syndrome and fitness benefits of exercise will also be discussed. Students will gain practical experience working with students with disabilities who are enrolled in the Adapted Physical Education. Students interested in pursuing careers in physical education, kinesiology, physical therapy, and nursing will find this course valuable.
Proposed CSU General Education Requirement – Area E

COURSE REVIEW; CSU GENERAL EDUCATION REQUIREMENT

1. Physical Education 224abcd - Golf
   Current Status/Proposed Change
   Proposed CSU General Education Requirement – Area E

   Recommendation:
   Proposed CSU General Education Requirement – Area E

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

1. Physical Education 270 – Fitness and Sports Nutrition
   Current Status/Proposed Change
   Recommended Preparation: eligibility for English A ~~or English 84~~ and Mathematics 23

   Recommendation:
   Recommended Preparation: eligibility for English A and Mathematics 23

COURSE REVIEW; CHANGES IN DESCRIPTIVE TITLE, CATALOG DESCRIPTION, CSU GENERAL EDUCATION REQUIREMENT

Current Status/Proposed Change

1. Physical Education 407abcd – Adapted ~~Sports and Games~~ Bowling
   This course is designed ~~to meet the needs of~~ for students with disabilities. ~~Activities will include bowling.~~, ~~over-the-line baseball, and bocce ball with a brief historical foundation. Participation will enhance gross motor skills, fitness, self-esteem and social interaction. Rules,~~ Students will receive instruction in the basic skills, rules, etiquette, ~~game strategy,~~ scoring and ~~sportsmanship will also be discussed~~ playing strategies in the activity of bowling. Students will also participate in a tournament and league play during the semester.
   Note: This course is designed for students with disabilities.
   Note: Students must obtain their own transportation to and from Gable House Bowl and must pay a fee per line of bowling, which includes rental of shoes and bowling ball.
   Proposed CSU General Education Requirement – Area E

Recommendation:

Physical Education 407abcd – Adapted Bowling
This course is designed for students with disabilities. Students will receive instruction in the basic skills, rules, etiquette, scoring and playing strategies in the activity of bowling. Students will also participate in a tournament and league play during the semester.
Note: This course is designed for students with disabilities.
Note: Students must obtain their own transportation to and from Gable House Bowl and must pay a fee per line of bowling, which includes rental of shoes and bowling ball.
Proposed CSU General Education Requirement – Area E

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

1. Radiologic Technology 111 – Fundamentals of Radiologic Technology
   Current Status/Proposed Change
   Corequisite: ~~enrollment in~~ Radiologic Technology 106 and Radiologic Technology 123
   Enrollment Limitation: admission to the Radiologic Technology Program
   This course is designed to prepare the radiography student with entry level skills and knowledge to perform safely in a radiology department. Topics covered are~~:~~ ~~Darkroom Radiography, Professional Ethics,~~ imaging receptors for screen/film, computed and direct-digital radiography, ~~P~~patient ~~C~~care, ~~Production of X-Ray, Radiographic Quality, Radiographic Technique,~~ ~~R~~radiation ~~S~~safety, ~~and~~

~~Introduction to Radiographic Positioning~~ x-ray production and interaction with matter, radiographic quality and technique, operation of radiographic equipment, image delivery, display, archiving and retrieval. Laboratory experiments are performed to compliment the didactic instruction.

Recommendation:
Corequisite: Radiologic Technology 106 and Radiologic Technology 123
Enrollment Limitation: admission to the Radiologic Technology Program
This course is designed to prepare the radiography student with entry level skills and knowledge to perform safely in a radiology department. Topics covered are imaging receptors for screen/film, computed and direct-digital radiography, patient care, radiation safety, x-ray production and interaction with matter, radiographic quality and technique, operation of radiographic equipment, image delivery, display, archiving and retrieval. Laboratory experiments are performed to compliment the didactic instruction.

INDUSTRY AND TECHNOLOGY DIVISION

COURSE REVIEW; CHANGES IN DESCRIPTIVE TITLE, CATALOG DESCRIPTION

Current Status/Proposed Change

1. Administration of Justice 130 – ~~Principles of the Justice System~~ Criminal Procedures
   This course is an in-depth study of the ~~role and responsibilities of each segment within the administration of justice system: law enforcement, judicial, and corrections. A past, present, and future exposure to sub-system procedures from initial entry to final disposition and the relationship each segment maintains with its members and the community will be explored~~ procedures by which a criminal defendant is tried. As enumerated by the Constitution's due process clauses of the Fifth and Fourteenth Amendments, this course examines how this process functions from the point at which a crime is committed to arrest, trial and appeal.

   Recommendation:
   Administration of Justice 130 – Criminal Procedures
   This course is an in-depth study of the procedures by which a criminal defendant is tried. As enumerated by the Constitution's due process clauses of the Fifth and Fourteenth Amendments, this course examines how this process functions from the point at which a crime is committed to arrest, trial and appeal.

Current Status/Proposed Change

2. Air Conditioning and Refrigeration 25 – Energy Efficient Residential, Commercial and Industrial Air Conditioning

This course covers ~~the fundamentals of cooling, heating and ventilation for~~ energy efficient green technology, (high efficiency) and advanced residential, commercial and industrial air conditioning ~~systems~~. Lab ~~activity~~ activities include~~s~~: the use of air conditioning test equipment, installation, repair and maintenance of various types of air conditioning systems. Students will learn various techniques of troubleshooting electrical and mechanical problems.

Recommendation:
Air Conditioning and Refrigeration 25 – Energy Efficient Residential, Commercial and Industrial Air Conditioning
This course covers energy efficient green technology, (high efficiency) and advanced residential, commercial and industrial air conditioning. Lab activities include: the use of air conditioning test equipment, installation, repair and maintenance of various types of air conditioning systems. Students will learn various techniques of troubleshooting electrical and mechanical problems.

COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION

1. Administration of Justice 131 – Legal Aspects of Evidence
   Current Status/Proposed Change
   This course covers the legal aspects evidence and the constitutional and procedural considerations affecting arrest, and search and seizure. Topics covered include types of evidence and rules governing their admissibility, judicial decisions interpreting individual rights, and case studies viewed ~~from a conceptual level~~ with respect to how they are applied in a criminal process from arrest to trial.

   Recommendation:
   This course covers the legal aspects evidence and the constitutional and procedural considerations affecting arrest, and search and seizure. Topics covered include types of evidence and rules governing their admissibility, judicial decisions interpreting individual rights, and case studies viewed with respect to how they are applied in a criminal process from arrest to trial.

2. Construction Technology 121 – Concrete and Formwork
   Current Status/Proposed Change
   This is an advanced course in ~~C~~construction ~~T~~technology, covering concrete and formwork. Topics of instruction include the ~~Uniform Building Code (UBC)~~ International Residential Code (IRC) requirements, construction mathematics, house layout, blueprint reading, formwork, use of leveling instruments and estimating. Practical instruction is given in the use of tools and materials through construction laboratory work.

Recommendation:
This is an advanced course in construction technology, covering concrete and formwork. Topics of instruction include the International Residential Code (IRC) requirements, construction mathematics, house layout, blueprint reading, formwork, use of leveling instruments and estimating. Practical instruction is given in the use of tools and materials through construction laboratory work.

3. Construction Technology 122 – Rough Framing
Current Status/Proposed Change
This is an advanced course in ~~C~~construction ~~T~~technology, covering rough framing. Topics of instruction include materials and methods of residential rough ~~framing~~ frame construction, rough lumber estimating~~,~~ and ~~Uniform Building Code (UBC)~~ International Residential Code (IRC) requirements. Practical instruction is given in the use of tools and materials through construction laboratory work.

Recommendation:
This is an advanced course in construction technology, covering rough framing. Topics of instruction include materials and methods of residential rough frame construction, rough lumber estimating and International Residential Code (IRC) requirements. Practical instruction is given in the use of tools and materials through construction laboratory work.

4. Construction Technology 131 – Roof Framing
Current Status/Proposed Change
This is an advanced course in ~~C~~construction ~~T~~technology, covering residential roof framing. Topics of instruction include roof structures, calculation and layout of various rafters, ~~Uniform Building Code (UBC)~~ International Residential Code (IRC) requirements, roof construction~~,~~ and estimating. Practical instruction is given in the use of tools and materials through construction laboratory work.

Recommendation:
This is an advanced course in construction technology, covering residential roof framing. Topics of instruction include roof structures, calculation and layout of various rafters, International Residential Code (IRC) requirements, roof construction and estimating. Practical instruction is given in the use of tools and materials through construction laboratory work.

5. Construction Technology 132 – Stair Framing
Current Status/Proposed Change
This is an advanced course in ~~C~~construction ~~T~~technology, covering residential stair framing. Topics of instruction include stair design, calculations, layout~~,~~ and construction. Practical instruction is given in the use of tools and materials through construction laboratory work.

Recommendation:
This is an advanced course in construction technology, covering residential stair framing. Topics of instruction include stair design, calculations, layout and construction. Practical instruction is given in the use of tools and materials through construction laboratory work.

6. Construction Technology 141 – Interior Subcrafts
Current Status/Proposed Change
This is an advanced course in ~~C~~construction ~~T~~technology, covering interior subcrafts. Topics of instruction include door hanging, drywall installation and finishing, ceramic tile setting, ~~Uniform Building Code (UBC)~~ International Residential Code (IRC), and estimating. Practical instruction is ~~given~~ provided in the use of tools and materials through construction laboratory work.

Recommendation:
This is an advanced course in construction technology, covering interior subcrafts. Topics of instruction include door hanging, drywall installation and finishing, ceramic tile setting, International Residential Code (IRC), and estimating. Practical instruction is provided in the use of tools and materials through construction laboratory work.

7. Construction Technology 142 – Exterior Subcrafts
Current Status/Proposed Change
This is an advanced course in ~~C~~construction ~~T~~technology, covering exterior subcrafts. Topics of instruction include window installation, exterior lath, stucco application and texturing, siding, concrete blocks, ~~Uniform Building Code (UBC)~~ International Residential Code (IRC), and estimating. Practical instruction is ~~given~~ provided in the use of tools and materials through construction laboratory work.

Recommendation:
This is an advanced course in construction technology, covering exterior subcrafts. Topics of instruction include window installation, exterior lath, stucco application and texturing, siding, concrete blocks, International Residential Code (IRC), and estimating. Practical instruction is provided in the use of tools and materials through construction laboratory work.

8. Construction Technology 172 – Residential Electrical Wiring
Current Status/Proposed Change
This course focuses on residential electrical wiring in accordance with the National Electric Code (NEC). Topics covered include blueprint reading, developing wiring diagrams, wiring, grounding~~,~~ and ~~the~~ placement of lights, switches, receptacles and fixtures. The proper selection and use of conduits, ~~the~~ determination of branch circuit requirements, ~~the~~ proper selection of circuit breakers and the installation of

service entrance and sub-panels are also covered. The techniques of electrical wiring are learned through construction laboratory work which requires ~~the~~ use of standard electrical tools and materials.

Recommendation:
This course focuses on residential electrical wiring in accordance with the National Electric Code (NEC). Topics covered include blueprint reading, developing wiring diagrams, wiring, grounding and placement of lights, switches, receptacles and fixtures. The proper selection and use of conduits, determination of branch circuit requirements, proper selection of circuit breakers and the installation of service entrance and sub-panels are also covered. The techniques of electrical wiring are learned through construction laboratory work which requires use of standard electrical tools and materials.

9. Fashion 11ab – Clothing Construction II
Current Status/Proposed Change
This course offers a study and development of contemporary garment construction using advanced techniques and procedures. Projects include garments made of a currently fashionable but "difficult to handle" fabric. Emphasis is placed on experimentation of the appropriate application of various techniques and procedures in ~~construction~~ constructing garments with workmanship ~~of high quality~~.

Recommendation:
This course offers a study and development of contemporary garment construction using advanced techniques and procedures. Projects include garments made of a currently fashionable but "difficult to handle" fabric. Emphasis is placed on experimentation of the appropriate application of various techniques and procedures in constructing garments with workmanship.

10. Machine Tool Technology 10K – 3D Numerical Control Graphics Programming
Current Status/Proposed Change
This course covers Computer Aided Manufacturing (CAM), emphasizing interactive graphics programming for Numerical Control (NC) machines. Students will utilize various techniques of creating geometry on multiple work planes, three dimensional (3-D) surface ~~tool path~~ toolpath creation and manipulation, implementing 4^{th} and 5^{th} axis machining, generating surface to surface intersections, creating blends between surfaces, creating roughing operations for 3D, and Computer Aided Design (CAD) data conversion for the purpose of 3D machining.

Recommendation:
This course covers Computer Aided Manufacturing (CAM), emphasizing interactive graphics programming for Numerical Control (NC) machines. Students will utilize various techniques of creating geometry on multiple work planes, three dimensional (3D) surface toolpath creation and manipulation, implementing 4th and 5th axis

machining, generating surface to surface intersections, creating blends between surfaces, creating roughing operations for 3D and Computer Aided Design (CAD) data conversion for the purpose of 3D machining.

COURSE REVIEW; CHANGES IN COURSE LENGTH, LECTURE HOURS, CREDIT STATUS, TRANSFER STATUS

1. Fire and Emergency Technology 128 – Paramedic Preparation Course
   Current Status/Proposed Change
   Course Length: ~~2~~ 4 Weeks
   Lecture: ~~32~~ 16 hours
   Credit Status: Credit, ~~Not~~ Degree Applicable
   Transfer CSU

   Recommendation:
   Course Length: 4 Weeks
   Lecture: 16 hours
   Credit Status: Credit, Degree Applicable
   Transfer CSU

COURSE REVIEW

1. Fire and Emergency 150 – Firefighter In-Service Training

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

1. Fashion 15ab – Fashion Sketching
   Current Status/Proposed Change
   Prerequisite: one semester of Art 10ab with a minimum grade of C
   Recommended Preparation: one semester of Art 17ab or concurrent enrollment
   ~~Sketching and media techniques for fashion design and merchandising students are studied.~~ This course explores creative sketching and illustration techniques for fashion design and merchandising students. Instruction includes the ~~developing~~ development of the fashion figure, quick sketches, ~~(~~croqui's,~~)~~ ~~drawing~~ and technically detailed flat apparel sketches. ~~(~~Students will creatively illustrate finished fashion illustrations for men, women, and children~~,)~~ in relation to correct proportion and scale. ~~Students apply basic techniques of drawing a descriptive garment trade sketch. Fabric rendering using pencil, pen and ink, felt tip pens and markers is expected~~ Various art supplies will be utilized to create cohesive group presentations targeted at various segments of the apparel industry.
   Recommendation:
   Prerequisite: one semester of Art 10ab with a minimum grade of C

Recommended Preparation: one semester of Art 17ab or concurrent enrollment
This course explores creative sketching and illustration techniques for fashion design and merchandising students. Instruction includes the development of the fashion figure, quick sketches, croqui's, and technically detailed flat apparel sketches. Students will creatively illustrate finished fashion illustrations for men, women, and children in relation to correct proportion and scale. Various art supplies will be utilized to create cohesive group presentations targeted at various segments of the apparel industry.

NATURAL SCIENCES DIVISION

NEW COURSES

1. Biotechnology 1 – Basic Techniques of Biological Technology
   Units: 2.5 Lecture: 0 hours Lab: 6 hours Faculty Load: 30.00%
   Prerequisite: Chemistry 4 with a minimum grade of C or equivalent
   Recommended Preparation: eligibility for English 1A
   Credit, degree applicable; Letter grade; Transfer CSU; Proposed Transfer UC
   This course provides fundamental skills for the biotechnology laboratory. This is the first of two courses in biotechnology techniques. The content covers standard notebook preparation for industry and academia; solution and media preparation; sterile technique; bacterial propagation; basic techniques of DNA extraction and manipulation; the use and maintenance of basic laboratory equipment; quality control and laboratory safety.

2. Biotechnology 2 – Advanced Techniques of Biological Technology
   Units: 2.5 Lecture: 0 hours Lab: 6 hours Faculty Load: 30.00%
   Prerequisite: Biotechnology 1 with a minimum grade of C
   Credit, degree applicable; Letter grade; Transfer CSU; Proposed Transfer UC
   This course provides advanced skills for the biotechnology laboratory. This is the second of two courses in biotechnology techniques. Methodologies include protein purification with column chromatography and quantitation with a spectrophotometer; protein characterization with SDS-PAGE and Western Blotting; ELISA; PCR; and Southern Blotting. Bioinformatics introduction and instruction are carried out with internet databases. Skills learned in the first biotechnology course are reinforced, including the use and maintenance of basic laboratory equipment, the practice of quality control and laboratory safety.