

**EL CAMINO COLLEGE  
MINUTES OF THE COLLEGE CURRICULUM COMMITTEE  
MARCH 13, 2012**

Present: B. Carey, J. Davidson, E. French-Preston, S. Gates, M. Lipe, E. Martinez, V. Nemie,  
T. Norton, V. Rayford, S. Rodriguez, J. Simon, J. Sims, J. Thompson, J. Young

Absent: F. Arce

Ex-Officio Members Present: Q. Chapman, M. Hall, C. Lee, L. Suekawa

Ex-Officio Members Absent: T. Carr, D. Vakil, C. Valdez

Also Present: D. Charman, E. Geraghty, C. Fitzsimons, D. Hayden, L. Linka, L. MacPherson,  
R. Natividad, R. Newell, J. Shankweiler

### **CALL TO ORDER**

Chair Simon called the College Curriculum Committee (CCC) meeting to order at 2:32 p.m.

### **CHAIR'S REPORT**

- CurricUNET passwords should not be shared.
- Do not login to CurricUNET using someone else's password.
- CurricUNET training will be held Friday, March 16 from 10:00 a.m. to 12:00 p.m., at Compton Education Center, Room VT126.
- The first draft of the Curriculum Handbook is due after Spring break; the full draft is due by the end of the semester.
- Nominations for CCC Chair should be complete by March 27; the election of the new CCC Chair will be held either April 24 or May 8.

### **CURRICULUM REVIEW**

#### **Health Sciences and Athletics**

After clarification by D. Charmin and R. Natividad regarding Radiologic Technology courses, and discussion in regards to reduction of hours and term lengths, the following new courses have been approved in CurricUNET and are ready for final action:

1. Radiologic Technologies 104 (RTEC 104)
2. Radiologic Technologies 109 (RTEC 109)
3. Radiologic Technologies 216 (RTEC 216)
4. Radiologic Technologies 220 (RTEC 220)

The following programs, which reflect the changes made to the aforementioned courses, have been approved in CurricUNET and are ready for final action:

1. Radiologic Technologies A.S. Degree
2. Radiologic Technologies Certificate of Accomplishment

#### **Industry and Technology**

R. Newell explained the changes made to the Welding courses, in regards to getting the students certified and moving above apprentice status, and clarified the repeatability issues and unit counts. The following courses have been approved in CurricUNET and are ready for final action:

1. Welding 23abc (WELD 23ABC)
2. Welding 28ab (WELD 28AB)

The following programs have been approved in CurricUNET and are ready for final action:

1. Welding A.S. Degree
2. Welding Certificate of Achievement

### **Fine Arts**

D. Hayden and C. Fitzsimons presented justification for the reactivation of the Entertainment Lighting Technology Certificate of Achievement, and Theatre 190ab, 191ab, 192ab, 193ab, 194ab and 195. The current equipment to support this program was out of date, and new equipment has become available due to changes in technology. The life span of the new equipment was questioned, and it was stated that the shift to digital is a major change, and the shelf life is approximately ten years. There was discussion on the sequence of classes without prerequisites, and it was determined that the courses were designed to be stand-alone. It was suggested that the first sentence of the catalog description for Theatre 190ab, Theatre 191ab, Theatre 192ab and Theatre 193ab be changed to reflect this, and it was decided to revise “This course is one of a four-course series” to “This course is one of four courses”. A live vote was put on hold pending feedback from Fine Arts faculty. As time was an issue, the committee believed a decision should be made today. C. Fitzsimons and D. Hayden left the meeting to gather faculty feedback, then returned and agreed upon the changes the committee suggested. T. Norton moved to vote on the six Theatre courses en masse, and V. Rayford seconded. The motion was carried. Chair Simon then called for a motion to approve the course reactivations and conditions of enrollment en masse. T. Norton moved, J. Young seconded, and the motion was carried. The following courses are ready for final action:

1. Theatre 190ab (THEA 190AB)
2. Theatre 191ab (THEA 191AB)
3. Theatre 192ab (THEA 192AB)
4. Theatre 193ab (THEA 193AB)
5. Theatre 194ab (THEA 194AB)
6. Theatre 195 (THEA 195)

The following program has been approved in CurricUNET and is ready for final action:

1. Entertainment Lighting Technology Certificate of Achievement

### **Programs – Curriculum Review**

The following programs have been approved in CurricUNET and are ready for final action:

1. Fire and Emergency Technology – Fire Academy Certificate of Achievement
2. Fire and Emergency Technology Certificate of Achievement
3. Fire and Emergency Technology A.S. Degree
4. History A.A. Degree

### **CONSENT AGENDA PROPOSALS**

The following courses were approved in CurricUNET and are ready for final action:

1. Air Conditioning and Refrigeration 21 (ACR 21)
2. Art 10ab (ART 10AB)
3. Automotive Collision Repair/Painting 2A (ACRP 2A)
4. Computer Science 60 (CSCI 60)
5. Contemporary Health 3 (CH 3)

6. Dance 26abcd (DANC 26ABCD)
7. Fire and Emergency Technology 7 (FTEC 7)
8. Fire and Emergency Technology 8 (FTEC 8)
9. Fire and Emergency Technology 14 (FTEC 14)
10. Fire and Emergency Technology 150 (FTEC 150)
11. History 190 (HIST 190)
12. Journalism 7ab (JOUR 7AB) same as Photography 11ab (PHOT 11AB)
13. Music 82abc (MUSI 82ABC)
14. Music 83abc (MUSI 83ABC)
15. Photography 11ab (PHOT 11AB) same as Journalism 7ab (JOUR 7AB)
16. Respiratory Care 293 (RC 293)
17. Respiratory Care 296 (RC 296)
18. Respiratory Care 297 (RC 297)
19. Radiologic Technology 108 (RTEC 108)
20. Radiologic Technology 219 (RTEC 219)
21. Radiologic Technology 244 (RTEC 244)

The following program inactivations were approved in CurricUNET and are ready for final action:

1. Communication Studies Certificate of Achievement
2. Communication Studies A.A. Degree
3. Laboratory Technician A.S. Degree
4. Sociology A.A. Degree

#### **LIVE VOTES**

1. Art 34ab (ART 34AB) – Chair Simon called for a motion to approve the course review proposal and conditions of enrollment. V. Nemie moved, T. Norton seconded, and the motion was carried unanimously.
2. Fire and Emergency Technology 3 (FTEC 3) – Chair Simon called for a motion to approve the new course proposal and conditions of enrollment. V. Nemie moved, V. Rayford seconded, and the motion was carried unanimously.

#### **BOARD POLICY 4260**

Chair Simon presented a draft of the Administrative Procedure for Board Policy 4260, which establishes prerequisites, co-requisites and advisories on recommended preparation for courses in the curriculum. J. Shankweiler is heading the committee created to review and revise the current procedure. The current draft presented applies to the “Procedure for Content Review Only”. The committee reviewed the draft, and Chair Simon updated per discussion and suggestions.

Discussion highlights included:

- Title 5 previously required statistical validation
- Changes to establishing communication or computational prerequisites outside of discipline
- District must adopt the plan before implementation
- Some data analysis is required
- Use data to plan for addition of prerequisites
- Driven by program review or low rates of success?

- Use SLO assessment data to trigger discussion about prerequisites
- Timeline for completion:
  - Finalize by Fall 2012
  - Implement for 2013-2014 Catalog

The following is a result of today's feedback from the committee:

**Procedure for Content Review Only (Draft)**

- Institutional Research (IR), SLO assessment data, program review or course review identifies courses with low rates of success
- Program review or SLO assessment report in targeted departments discuss data and whether or not a prerequisite should be considered
- Department works with curriculum advisor and curriculum chair to plan to add prerequisites
- Content review—review of targeted course, and objectives in prerequisite course; work with faculty in the department with prerequisite course
- Prerequisite added to course
- Review of prerequisite in next program review, course review, or SLO assessment report

Chair Simon requested additional comments and suggestions from the committee after reviewing the revised procedure.

**TECHNICAL SCREENING INFORMATION**

Q. Chapman presented information to the committee in regards to course review, and what technical screening means prior to forwarding proposals to the committee for review:

Relevant:

1. Course review page / Course comparison report
  - a. Actions
  - b. Data entry
    - i. First time review in CurricUNET
      1. SLO assessments
      2. Evidence of content review
  - c. Explanations / Justifications
2. Course Outline of Record at a minimum
  - a. Completeness
  - b. Information in the proper section
  - c. Attempt to enter information
  - d. Consistent with course review page
  - e. Actions that will directly impact registration and student records
    - i. Must be documented from this point on for schedules and catalog
  - f. Section I of COR – General course information
  - g. Total course hours

Not looking for:

1. Grammar mistakes
2. Appropriate objectives

3. Critical thinking
4. Appropriate text and materials

If completed, will possibly comment on:

1. Lack of details in topics
2. Independent study hours
3. Year of text
4. Justification if repeatable course

## **ANNOUNCEMENTS**

### **Standard Review Committee**

Chair Simon reminded the committee that volunteers are still needed for the April 5 Standard Review Sub-Committee. E. French-Preston and J. Thompson offered to serve on the committee.

The following is the permanent schedule:

March 1, 2012	J. Thompson / J. Davidson
March 15, 2012	T. Norton / Bryan Carey
April 5, 2012	E. French-Preston / J. Thompson
April 26, 2012	S. Gates / J. Young
May 10, 2012	V. Rayford / E. Martinez

## **APPROVAL OF MINUTES**

The minutes from the February 28 meeting were sent via email and approved as submitted prior to today's meeting.

## **ADJOURNMENT**

Chair Simon called for a motion to adjourn the meeting. J. Thompson moved, V. Nemie seconded, and the motion was carried. Chair Simon adjourned the meeting at 4:14 p.m.

**EL CAMINO COLLEGE  
COLLEGE CURRICULUM COMMITTEE**

**March 13, 2012  
Proposed Curriculum Changes for 2012-2013**

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**BEHAVIORAL AND SOCIAL SCIENCES**

**INACTIVATE COURSE**

1. History 190 – History of the Middle East

**CHANGE IN MAJOR; COURSE REQUIREMENTS**

1. History A.A. Degree  
*Current Status/Proposed Changes*  
History 101, 102, 140, 141;  
three courses from: American Studies 7, History 105, 106, 108, 110, 111, 112, 114, 122, 128,  
129, 143, 145, 152, 154, 162, 163, 165, 175, 176, 177, 178, 183, 184, ~~190~~  
Total Units: 21

*Recommendation*  
History 101, 102, 140, 141;  
three courses from: American Studies 7, History 105, 106, 108, 110, 111, 112, 114, 122, 128,  
129, 143, 145, 152, 154, 162, 163, 165, 175, 176, 177, 178, 183, 184  
Total Units: 21

**INACTIVATE MAJOR**

1. Sociology A.A. Degree

**FINE ARTS**

**COURSE REVIEW**

1. Art 10ab – Drawing Fundamentals I
2. Art 34ab – Gallery Management and Artist Career Issues
3. Dance 26abcd – Hip Hop Dance
4. Music 82abc – Digital Audio Recording for Commercial Music
5. Music 83abcd – Keyboarding for Commercial Music

6. Photography 11ab – Advanced Photojournalism (cross-listed with Journalism 7ab)

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

1. Theatre 190ab – Operation of Intelligent Lighting Fixtures

*Current Status/Proposed Changes*

Units: 2    Lecture: 3 hours    Lab: 5 hours    Faculty Load: 45.00%

~~Recommended Preparation: Theatre 90~~

Grading Method: Letter

Credit, degree applicable

Transfer CSU

This course is one of a four courses series on intelligent lighting fixtures and provides instruction in the function and application of computer-controlled lighting fixtures to various entertainment industries. Emphasis is placed on the identification, selection, and utilization of moving mirror projectors, moving yoke wash lights, and moving yoke projectors and related aesthetic and lighting-design concepts.

*Recommendation*

Units: 2    Lecture: 3 hours    Lab: 5 hours    Faculty Load: 45.00%

Grading Method: Letter

Credit, degree applicable

Transfer CSU

This course is one of four courses on intelligent lighting fixtures and provides instruction in the function and application of computer-controlled lighting fixtures to various entertainment industries. Emphasis is placed on the identification, selection, and utilization of moving mirror projectors, moving yoke wash lights, and moving yoke projectors and related aesthetic and lighting-design concepts.

2. Theatre 191ab – Repair and Maintenance of Intelligent Lighting Fixtures

*Current Status/Proposed Changes*

Units: 2    Lecture: 2 hours    Lab: 6 hours    Faculty Load: 43.33%

~~Recommended Preparation: Theatre 90 and theatre 190ab~~

Grading Method: Letter

Credit, degree applicable

Transfer CSU

This course is one of a four courses series on intelligent lighting and provides instruction in the repair and maintenance of computer-controlled moving mirror and moving yoke lighting fixtures. Emphasis is placed on practical experience with scanning heads, moving yoke motors, electric and magnetic ballasts, circuit board replacement, optic systems, color mixing systems, pattern and gobo systems, field repair and the related technical concepts.

*Recommendation*

Units: 2    Lecture: 2 hours    Lab: 6 hours    Faculty Load: 43.33%  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course is one of four courses on intelligent lighting and provides instruction in the repair and maintenance of computer-controlled moving mirror and moving yoke lighting fixtures. Emphasis is placed on practical experience with scanning heads, moving yoke motors, electric and magnetic ballasts, circuit board replacement, optic systems, color mixing systems, pattern and gobo systems, field repair and the related technical concepts.

3. Theatre 192ab – Setup of Intelligent Lighting Fixtures

*Current Status/Proposed Changes*

Units: 2    Lecture: 2 hours    Lab: 6 hours    Faculty Load: 43.33%  
~~Recommended Preparation: Theatre 90, Theatre 190ab and Theatre 191ab~~  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course is one of a four courses series on intelligent lighting fixtures and provides instruction in the rigging and installation of computer-controlled lighting fixtures. Emphasis is placed on current lighting protocol, the ethernet protocol, power distribution, and the related technical concepts and safety procedures.

*Recommendation*

Units: 2    Lecture: 2 hours    Lab: 6 hours    Faculty Load: 43.33%  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course is one of four courses on intelligent lighting fixtures and provides instruction in the rigging and installation of computer-controlled lighting fixtures. Emphasis is placed on current lighting protocol, the ethernet protocol, power distribution, and the related technical concepts and safety procedures.

4. Theatre 193ab – Programming and Lighting Design with Intelligent Lighting Systems

*Current Status/Proposed Changes*

Units: 2    Lecture: 2 hours    Lab: 6 hours    Faculty Load: 43.33%  
~~Recommended Preparation: Theatre 90, 190ab, 191ab and 192ab~~  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course is one of a four courses series on intelligent lighting fixtures and provides instruction for programming and designing light plots using computer-controlled lighting fixtures for the various entertainment industries. Emphasis is placed on the practical



utilization of programming consoles, off-line editing software, programming platforms, and the related aesthetic and technical concepts.

*Recommendation*

Units: 2    Lecture: 2 hours    Lab: 6 hours    Faculty Load: 43.33%  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course is one of four courses on intelligent lighting fixtures and provides instruction for programming and designing light plots using computer-controlled lighting fixtures for the various entertainment industries. Emphasis is placed on the practical utilization of programming consoles, off-line editing software, programming platforms, and the related aesthetic and technical concepts.

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

1. Theatre 194ab – Computer Applications for the Entertainment Lighting Industry

*Current Status/Proposed Changes*

Units: 3    Lecture: 2 hours    Lab: 4 hours    Faculty Load: 33.33%  
~~Recommended Preparation: Theatre 90 and Theatre 84~~  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course is an introduction to two-dimensional and three-dimensional computer aided design/drafting, lighting database applications, and real-time lighting visualization for various entertainment industries. Emphasis is placed on the drafting plan, cross-section, isometric, and 3-D shaded views for entertainment venues; creating lighting databases and formatting spreadsheets; and developing computer generated real-time lighting models.

*Recommendation*

Units: 3    Lecture: 2 hours    Lab: 4 hours    Faculty Load: 33.33%  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course is an introduction to two-dimensional and three-dimensional computer aided design/drafting, lighting database applications, and real-time lighting visualization for various entertainment industries. Emphasis is placed on the drafting plan, cross-section, isometric, and 3-D shaded views for entertainment venues; creating lighting databases and formatting spreadsheets; and developing computer generated real-time lighting models.

**REACTIVATE COURSE**

1. Theatre 195 – Industry Analysis and Portfolio Planning for the Entertainment Lighting Industry  
Units: 2    Lecture: 2 hours    Lab: 0 hours    Faculty Load: 13.33%  
Grading Method: Letter  
Credit, degree applicable  
Transfer CSU

This course analyzes the various sectors of the entertainment lighting industry and provides instruction in portfolio planning.

### **REACTIVATE CERTIFICATE OF ACHIEVEMENT**

1. Theatre: Entertainment Lighting Technology  
The theatre program provides students with a comprehensive foundation in theatre, history, practice of theatre, and entertainment lighting. This is fulfilled through a structured program of theatre study in the areas of history, dramatic literature, acting, performance, technical theatre, entertainment lighting, and related crafts. Students will demonstrate their proficiency through acting competency, public performance, research papers, essays, class projects, and technical crew assignments. Program assessment is measured by public performances, program completion, transferability, and periodic program review. Students qualify to pursue a variety of theatre and entertainment related careers and advanced degree options.

A Certificate of Achievement will be granted upon completion of all program requirements.

Theatre 84, 90, 97abcd (two semesters), 190ab\*, 191ab\*, 192ab\*, 193ab\*, 194ab\*, 195 (\*one semester)  
Total Units: 21

### **INACTIVATE MAJOR**

1. Communication Studies A.A. Degree

### **INACTIVATE CERTIFICATE OF ACHIEVEMENT**

1. Communication Studies

## **HEALTH SCIENCES AND ATHLETICS**

### **COURSE REVIEW**

1. Contemporary Health 3 – Drugs and Alcohol in Society

### **COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION**

1. Radiologic Technology 244 – Radiation Physics, Equipment, and Safety  
*Current Status/Proposed Changes*

This course ~~introduces fundamentals~~ continues with the study of radiation and radiological physics. Additional subjects covered are: the operation of medical x-ray and fluoroscopy units, the effects of radiation in humans, and the principles of radiation protection as applied in medical radiography; ~~a~~An introduction to health physics instrumentation, and radiation control regulations, ~~and the production of radiation by fluoroscopic units~~ with the an emphasis on radiation health and safety; will be discussed along with the Pprinciples of digital imaging ~~will also be discussed~~.

*Recommendation*

This course continues with the study of radiation and radiological physics. Additional subjects covered are: the operation of medical x-ray and fluoroscopy units, the effects of radiation in humans, and the principles of radiation protection as applied in medical radiography. An introduction to health physics instrumentation, and radiation control regulations, with an emphasis on radiation health and safety will be discussed along with the principles of digital imaging.

**NEW COURSE**

1. Radiologic Technology 104 – Clinical Education 1  
 Units: 1.5 Lecture: 0 hours Lab: 4.5 hours to be arranged Faculty Load: 22.50%  
 Prerequisite: Radiologic Technology 106 and 111 and 123 with a minimum grade of C in prerequisite  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course continues the development of clinical skills in the performance of radiographic examinations. Areas of skill development include the upper and lower extremities and radiography of the chest. Emphasis will be placed on radiation protection of the patient, self, and co-workers.

2. Radiologic Technology 109 – Clinical Experience 3  
 Units: 2.5 Lecture: 0 hours Lab: 7.5 hours to be arranged Faculty Load: 37.50%  
 Prerequisite: Radiologic Technology 107 and 124 with a minimum grade of C in prerequisite  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course provides continued development of clinical skills in the performance of radiographic examinations to include the chest, abdomen, upper and lower extremities, vertebral column, bony thorax, pelvis, gastrointestinal and urinary systems. Emphasis will be placed on contrast media examinations and radiation protection of the patient, self, and co-workers, with the use of fluoroscopy and mobile radiographic equipment. Special imaging consideration for the pediatric and geriatric patients, the acutely ill, surgical and trauma patients will also be covered.

3. Radiologic Technology 216 – Clinical Education 2

Units: 2    Lecture: 0 hours    Lab: 6.0 hours to be arranged    Faculty Load: 30.00%  
 Prerequisite: Radiologic Technology 217 with a minimum grade of C  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course provides continued development of clinical skills in the performance of radiographic examinations to include the chest, abdomen, upper and lower extremities, vertebral column, bony thorax, pelvis, cranium and facial bones. Emphasis will be placed on advanced contrast examinations and radiation protection of the patient, self, and co-workers, especially with the use of fluoroscopy and mobile radiographic equipment. Special imaging considerations for the pediatric and geriatric patients, the acutely ill, surgical and trauma patients will also be covered.

4. Radiologic Technology 220 – Clinical Experience 6  
 Units: 3    Lecture: 0 hours    Lab: 9 hours to be arranged    Faculty Load: 45.00%  
 Prerequisite: Radiologic Technology 218 with a minimum grade of C  
 Grading Method: Letter  
 Credit, degree applicable  
 Transfer CSU

This course continues the development of clinical skills in the performance of radiographic examinations, with a special emphasis in specialized radiography, new modalities and age-specific competencies. Advanced clinical practice experiences are designed to provide competent performance of radiologic imaging. Students will perform independently, with appropriate supervision to assess their skills for employability. The course emphasizes completions of all mandatory, elective and final clinical performance evaluations.

**INACTIVATE COURSE**

1. Radiologic Technology 108 – Clinical Experience 3
2. Radiologic Technology 219 – Clinical Experience 6

**CHANGE IN MAJOR; PROGRAM PREREQUISITES, COURSE REQUIREMENTS, UNITS**

1. Radiologic Technology A.S Degree  
*Current Status/Proposed Changes*  
**Program Prerequisites:**
  - ~~High school graduate with at least a C average or GED equivalent~~
  - ~~Complete the following courses with a grade point average of 2.25 or better:~~  
 Anatomy 32 or Anatomy and Physiology 34A, Computer Information Systems 13, English 1A, Mathematics 73 or 80, Physiology 31 or Anatomy and Physiology 34B, Psychology 5, Radiologic Technology A. ~~A minimum grade of C must be earned in each course.~~
  - ~~Grade point average of 2.25 or better~~

**Major Requirements:**

Radiologic Technology 91, 93, 104, 106, 107, ~~108~~, 109, 111, 123, 124, 216, 217, 218, 233, 244, 255, Medical Terminology 1  
Total Units: ~~58~~ 60

*Recommendation*

**Program Prerequisites:**

Complete the following courses with a grade point average of 2.25 or better:  
Anatomy 32 or Anatomy and Physiology 34A, Computer Information Systems 13, English 1A, Mathematics 73 or 80, Physiology 31 or Anatomy and Physiology 34B, Psychology 5, Radiologic Technology A

**Major Requirements:**

Radiologic Technology 91, 93, 104, 106, 107, 109, 111, 123, 124, 216, 217, 218, 233, 244, 255, Medical Terminology 1  
Total Units: 60

**CHANGE IN CERTIFICATE OF ACCOMPLISHMENT**

1. Radiologic Technology Certificate of Accomplishment

*Current Status/Proposed Changes*

Certificate Requirements:

Radiologic Technology ~~219~~ 220, 328

Total Units: ~~10.5~~ 7.5

*Recommendation*

Radiologic Technology 220, 328

Total Units: 7.5

**COURSE REVIEW; CHANGE IN LAB CONTACT HOURS (TO BE ARRANGED)**

1. Respiratory Care 293 – Cardiac Monitoring in Advanced Respiratory Care

*Current Status/Proposed Changes*

Lab: 3 hours to be arranged

*Recommendation*

Lab: 3 hours to be arranged

2. Respiratory Care 296 – Physical Examination in Advanced Respiratory Care

*Current Status/Proposed Changes*

Lab: 3 hours to be arranged

*Recommendation*

Lab: 3 hours to be arranged

3. Respiratory Care 297 – Perinatal and Pediatric Care in Advanced Respiratory Care

*Current Status/Proposed Changes*

Lab: 3 hours to be arranged

*Recommendation*

Lab: 3 hours to be arranged

**HUMANITIES**

**COURSE REVIEW**

1. Journalism 7ab – Advanced Photojournalism (cross-listed with Photography 11ab)

**INDUSTRY AND TECHNOLOGY**

**COURSE REVIEW; CHANGES IN CATALOG DESCRIPTION**

1. Air Conditioning and Refrigeration 21 – Air Conditioning Fundamentals

*Current Status/Proposed Changes*

This course is designed to introduce students to air conditioning and refrigeration theory and provide an overview of the skills needed for employment in the industry. Topics introduced include safety, air conditioning system operation and components, brazing, electrical applications, service tools and equipment. ~~Laboratory projects and exercises related to lectures and demonstrations will be assigned.~~

*Recommendation*

This course is designed to introduce students to air conditioning and refrigeration theory and provide an overview of the skills needed for employment in the industry. Topics introduced include safety, air conditioning system operation and components, brazing, electrical applications, service tools and equipment.

2. Automotive Collision Repair/Painting 2A – Basic Automotive Painting – Refinishing

*Current Status/Proposed Changes*

In this course, students are introduced to automotive painting and refinishing and the skills needed for employment in industry. Topics covered include safety practices, industry repair standards, ~~VOC (Volatile Organic Compound)~~ (VOC) recording, surface identification, surface preparation, abrasives, metal conditioning, vehicle masking, primers, and spray equipment.

Note: The two-course sequence of Automotive Collision Repair/Painting 2A and 2B is equivalent to four semesters of the same as Automotive Collision Repair/Painting 5abcd.

*Recommendation*

In this course, students are introduced to automotive painting and refinishing and the skills needed for employment in industry. Topics covered include safety practices, industry repair standards, volatile organic compound (VOC) recording, surface identification, surface preparation, abrasives, metal conditioning, vehicle masking, primers, and spray equipment.

Note: The two-course sequence of Automotive Collision Repair/Painting 2A and 2B is equivalent to four semesters of Automotive Collision Repair/Painting 5abcd.

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

*Current Status/Proposed Changes*

1. Fire and Emergency Technology 150 – ~~Firefighter In Service~~ Fire Specialized Training  
Enrollment limitation: current employment as a paid, volunteer or auxiliary firefighter  
Prerequisite:
  1. Successful completion of a California State Fire Marshal certified fire academy.
  2. Proof of passing the Emergency Medical Technician (EMT) National Registry Examination.
  3. Furnish proof of a current negative Tuberculosis Test (TB). Test must taken within 12 months and valid during class period.
  4. Completion of background investigation. Background investigation to be completed prior to attending the first class session. See the Division Office of Industry and Technology for details.

This course will acquaint ~~fire service personnel~~ the student with current changes in contemporary fire fighting techniques. Major topics include fire service appliances, fire chemistry, automatic fire extinguishers and agents. Additional topics include fire prevention and enforcement, arson investigation, public safety, hazardous materials control and enforcement, communication and emergency medical techniques.

Note: Pass/no pass only

Note: This course is repeatable.

*Recommendation*

Fire and Emergency Technology 150 –~~Fire~~ Fire Specialized Training

Prerequisite:

1. Successful completion of a California State Fire Marshal certified fire academy.
2. Proof of passing the Emergency Medical Technician (EMT) National Registry Examination.
3. Furnish proof of a current negative Tuberculosis Test (TB). Test must taken within 12 months and valid during class period.
4. Completion of background investigation. Background investigation to be completed prior to attending the first class session. See the Division Office of Industry and Technology for details.

This course will acquaint the student with current changes in contemporary fire fighting techniques. Major topics include fire service appliances, fire chemistry, automatic fire extinguishers and agents. Additional topics include fire prevention and enforcement, arson investigation, public safety, hazardous materials control and enforcement, communication and emergency medical techniques.

Note: Pass/no pass only

Note: This course is repeatable.

**INACTIVATE COURSE**

1. Fire and Emergency Technology 7 – Fire Protection Engineering
2. Fire and Emergency Technology 8 – Fire Service Hydraulics
3. Fire and Emergency Technology 14 – Applied Science for Fire Protection

#### **NEW COURSE**

1. Fire and Emergency Technology 3 – Fundamentals of Personal Fire Safety and Survival  
Units: 3    Lecture: 3 hours    Lab: 0 hours    Faculty load: 20.00%  
Recommended Preparation: Fire and Emergency Technology 1 and eligibility for English 1A  
Grading Method: Letter  
Credit, degree applicable  
Transfer CSU

This course introduces the basic principles and history related to the national firefighter life safety initiatives. Emphasis will be placed on the need for cultural and behavior change throughout emergency services. Focus is placed on assessing fire dangers and handling common fire situations.

#### **CHANGE IN MAJOR; COURSE REQUIREMENTS, UNITS**

1. Fire and Emergency Technology A.S. Degree Option  
*Current Status/Proposed Changes*  
Fire and Emergency Technology 1, 2, 3, 5, 6, ~~9~~, 10, 20, 140, 141  
Total Units: ~~26~~ 27

Recommended electives: Fire and Emergency Technology 4, ~~7, 8, 9~~, 11, ~~14~~, Physical Education 280

##### *Recommendation*

Fire and Emergency Technology 1, 2, 3, 5, 6, 10, 20, 140, 141  
Total Units: 27

Recommended electives: Fire and Emergency Technology 4, 9, 11, Physical Education 280

#### **CHANGE IN CERTIFICATE OF ACHIEVEMENT; COURSE REQUIREMENTS, UNITS**

1. Fire Academy  
*Current Status/Proposed Changes*  
A Certificate of Achievement will be granted upon completion of all program requirements. At least 50% of the courses required for the Certificate of Achievement must be completed at El Camino College.

Fire and Emergency Technology 1, 15, 140, 141;



~~Completion of Candidate Physical Agility Test (CPAT) or Fire Fighter Physical Agility Test (FPAT);~~

three units from:

Fire and Emergency Technology 2, 3, 5, 6, ~~7, 8~~, 9, 10, 11, ~~14~~, 19, 20

Total Units: ~~23~~24

Other requirements: Completion of Candidate Physical Agility Test (CPAT) or Fire Fighter Physical Agility Test (FPAT)

*Recommendation*

Fire and Emergency Technology 1, 15, 140, 141;

three units from:

Fire and Emergency Technology 2, 3, 5, 6, 9, 10, 11, 19, 20

Total Units: 24

Other requirements: Completion of Candidate Physical Agility Test (CPAT) or Fire Fighter Physical Agility Test (FPAT)

2. Fire and Emergency Technology

*Current Status/Proposed Changes*

A Certificate of Achievement will be granted upon completion of all program requirements.

At least 50% of the courses required for the Certificate of Achievement must be completed at El Camino College.

Fire and Emergency Technology 1, 2, 3, 5, 6, ~~9~~, 10, 20, 140, 141

Total Units: ~~26~~27

*Recommendation*

Fire and Emergency Technology 1, 2, 3, 5, 6, 10, 20, 140, 141

Total Units: 27

**COURSE REVIEW; CHANGES IN DESCRIPTIVE TITLE, UNITS, LECTURE/LAB HOURS, FACULTY LOAD, CONDITIONS OF ENROLLMENT (Prerequisite, Corequisite, Recommended Preparation, or Enrollment Limitation), GRADING METHOD, CATALOG DESCRIPTION**

*Current Status/Proposed Changes*

1. Welding 23abc – Advanced Arc Welding ~~Certification~~-Specialty Lab

Units: ~~3~~2 Lecture: ~~2~~0 hours Lab: ~~4~~06 hours Faculty load: ~~33~~33 30.00%

Prerequisite: Welding ~~±~~2abc or 21 with a minimum grade of C in prerequisite or equivalent

Grading Method: ~~Letter~~ Both

This advanced level welding course is designed ~~for the~~ to further develop advanced specialized ~~are~~ welding skills in the structural, sheet metal, and construction industries. This course is for the advanced arc welding student preparing for an the American Welding Society (AWS) Structural Steel practical exam and and Light Gauge Certification, Los

~~Angeles City Structural Light Gauge and Reinforcing Steel Welding Certification or California State Welding Certification.~~

Note: Letter grade or P/NP option

*Recommendation*

Welding 23abc – Advanced Arc Welding Specialty Lab

Units: 2    Lecture: 0 hours    Lab: 6 hours    Faculty load: 30.00%

Prerequisite: Welding 2abc or 21 with a minimum grade of C in prerequisite or equivalent

Grading Method: Both

This advanced level welding course is designed to further develop advanced specialized welding skills in the structural, sheet metal, and construction industries. This course is for the advanced arc welding student preparing for the American Welding Society (AWS) Structural Steel practical exam and certification.

Note: Letter grade or P/NP option

**NEW COURSE**

1. Welding 28ab – American Welding Society (AWS) D1.1 Certification Test Preparation

Units: 3    Lecture: 3 hours    Lab: 0 hours    Faculty load: 20.00%

Prerequisite: Welding 2abc or 21 with a minimum grade of C or equivalent

Grading Method: Both

Credit, degree applicable

Transfer CSU

This course will prepare the student to pass the written examination of the Los Angeles City Department of Building and Safety Structural Steel American Welding Society (AWS) D1.1 examination. Both the midterm and final examinations will be administered under same testing conditions as the actual Los Angeles City written exam.

Note: Letter grade or P/NP option

**CHANGE IN MAJOR; CATALOG PROGRAM DESCRIPTION; COURSE REQUIREMENTS**

1. Welding A.S. Degree

*Current Status/Proposed Changes*

The welding program prepares ~~the~~ students for employment in the field and provides opportunities for currently employed personnel to upgrade their skills. By completing the degree or certificate requirements, students gain proficiency in ~~the following welding processes:~~ oxy-acetylene cutting, plasma arc cutting, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, and flux cored welding. Students develop skills in welding ferrous and non-ferrous alloys in flat, horizontal, vertical, and overhead positions. ~~In addition, welding students~~ and gain skills in layout, fabrication, reading engineering drawings, and pipe welding. The program also provides training for students to prepare for AWS D1.1 certification. Competencies will be assessed regularly in accordance with criteria

established by the American Welding Society (AWS), the American Petroleum Institute, the American Society of Mechanical Engineers, and the American National Standards Institute.

At least 50% of the major requirements for the Associate in Science Degree must be completed at El Camino College.

Complete a minimum of 24-25 units from:

Welding 2abc, 21, 40abcd, 45ab

Total Units: 24-25

Recommended Electives:

Welding 23abc, 28ab, Computer Aided Design/Drafting 5, Machine Tool Technology 16ab (one semester), ~~Technical Mathematics 1~~ Mathematics 12

*Recommendation*

The welding program prepares students for employment in the field and provides opportunities for currently employed personnel to upgrade their skills. By completing the degree or certificate requirements, students gain proficiency in oxy-acetylene cutting, plasma arc cutting, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, and flux cored welding. Students develop skills in welding ferrous and non-ferrous alloys in flat, horizontal, vertical, and overhead positions and gain skills in layout, fabrication, reading engineering drawings and pipe welding. The program also provides training for students to prepare for AWS D1.1 certification. Competencies will be assessed regularly in accordance with criteria established by the American Welding Society (AWS), the American Petroleum Institute, the American Society of Mechanical Engineers and the American National Standards Institute.

At least 50% of the major requirements for the Associate in Science Degree must be completed at El Camino College.

Complete a minimum of 24-25 units from:

Welding 2abc, 21, 40abcd, 45ab

Total Units: 24-25

Recommended Electives:

Welding 23abc, 28ab, Computer Aided Design/Drafting 5, Machine Tool Technology 16ab (one semester), Mathematics 12

**CHANGE IN CERTIFICATE OF ACHIEVEMENT; CATALOG PROGRAM DESCRIPTION, COURSE REQUIREMENTS, UNITS**

1. Welding

*Current Status/Proposed Changes*

The welding program prepares ~~the~~ students for employment in the field and provides opportunities for currently employed personnel to upgrade their skills. By completing the degree or certificate requirements, students gain proficiency in ~~the following welding processes:~~ oxy-acetylene cutting, plasma arc cutting, shielded metal arc welding, gas metal

arc welding, gas tungsten arc welding, and flux cored welding. Students develop skills in welding ferrous and non-ferrous alloys in flat, horizontal, vertical, and overhead positions. ~~In addition, welding students~~ and gain skills in layout, fabrication, reading engineering drawings, and pipe welding. The program also provides training for students to prepare for AWS D1.1 certification. Competencies will be assessed regularly in accordance with criteria established by the American Welding Society (AWS), the American Petroleum Institute, the American Society of Mechanical Engineers, and the American National Standards Institute.

A Certificate of Achievement will be granted upon completion of all program requirements. At least 50% of the courses required for the Certificate of Achievement must be completed at El Camino College.

Complete 24-25 unites from ~~any course combination below:~~

Welding 2abcd, 21, 40abcd, 45ab

complete ~~8-9-12~~ units from:

Weld 23abc, 28ab, Computer Aided Design/Drafting 5, Machine Tool Technology 16ab (one semester), ~~Technical Mathematics 1~~ Mathematics 12, English A or qualifying score for English 1A on English Placement Test

Total Units: ~~33-37~~ 32-34

*Recommendation*

The welding program prepares students for employment in the field and provides opportunities for currently employed personnel to upgrade their skills. By completing the degree or certificate requirements, students gain proficiency in oxy-acetylene cutting, plasma arc cutting, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, and flux cored welding. Students develop skills in welding ferrous and non-ferrous alloys in flat, horizontal, vertical, and overhead positions and gain skills in layout, fabrication, reading engineering drawings and pipe welding. The program also provides training for students to prepare for AWS D1.1 certification. Competencies will be assessed regularly in accordance with criteria established by the American Welding Society (AWS), the American Petroleum Institute, the American Society of Mechanical Engineers and the American National Standards Institute.

A Certificate of Achievement will be granted upon completion of all program requirements. At least 50% of the courses required for the Certificate of Achievement must be completed at El Camino College.

Complete 24-25 units from:

Welding 2abcd, 21, 40abcd, 45ab;

complete 8-9 units from:

Welding 23abc, 28ab, Computer Aided Design/Drafting 5, Machine Tool Technology 16ab (one semester), Mathematics 12, English A or qualifying score for English 1A on English Placement Test

Total units: 32-34

**MATHEMATICAL SCIENCES**

**INACTIVATE COURSE**

1. Computer Science 60 – Programming with ASP.NET and C# in Web-based Computer Science Applications

**NATURAL SCIENCES**

**INACTIVATE MAJOR**

2. Laboratory Technician (Medical) A.S. Degree

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**Note: Proposals approved at the March 13, 2012 CCC meeting were approved under extenuating circumstances for implementation in the 2012-2013 academic year.**