

EL CAMINO COLLEGE
MINUTES OF THE COLLEGE CURRICULUM COMMITTEE
December 3, 2013

Present: F. Arce, S. Bartiromo, S. Bosfield, W. Brownlee, T. Bui, A. Cornelio, B. Flameno,
E. French-Preston, L. Houske, L. Kjeseth, R. Klier, S. Kushigemachi, M. Lipe,
V. Nemie, D. Pahl

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

Ex-Officio Members Absent: S. Ecklund, G. Florimon, M. Hall, J. Simon

Guests: S. Blake, R. Newell, S. Rodriguez, D. Shrader, P. Sorunke

CALL TO ORDER

Chair Lipe called the College Curriculum Committee (CCC) meeting to order at 2:35 p.m.

VICE PRESIDENT'S REPORT

F. Arce thanked Chair Lipe for his exemplary service. "You are a great leader and we appreciate everything you do."

APPROVAL OF MINUTES

The minutes from the November 12th meeting were sent via email and approved by the committee.

CURRICULUM REVIEW – Full Course Review Proposals

Humanities Division

The English Department is proposing to add a new experimental course to their curriculum. English 50RWA (Integrated Reading and Writing) is designed to promote student success by shortening the pathway to transfer and graduation for students at the pre-collegiate basic skill level. According to S. Blake, this course would replace English 84 and English A. The committee agreed to apply degree credit for the course and remove it from General Education pattern as the course is below English 1A level.

Chair Lipe called a motion to approve the new course proposal including the proposed conditions of enrollment. L. Kjeseth moved, W. Brownlee seconded, and the motion passed unanimously.

Industry and Technology Division

Welding 10A, 10B, and 10C

R. Newell briefed the committee on the restructuring plans for the Welding Department. The department is planning to restructure Welding 5 (formerly Welding 2abcd) and inactivate Welding 21 as a result of Title 5 changes in repeatability. Welding 5 is being replaced with three new welding courses: Welding 10A, 10B, and 10C. Restructuring Welding 5 into three

structured courses improves learning efficiency, student success, and helps the student work toward preparation for Los Angeles City Structural certification. The department is concerned about transferability since Welding 10A and 10B have parallel courses at California Community Colleges and to out-of-state colleges, but parallel courses could not be located at CSU/UC colleges. In comparison, California Community Colleges were identified for Welding 10C, but parallel courses were not identified at the CSU/UCs or out-of-state college system.

The Welding A.S. Degree is transferable at CSU Los Angeles, but the courses are not exact. L. Suekawa provided an articulation agreement between CSU Los Angeles and El Camino College which explains the Foundation transfer program. Under this program, a maximum of 23 semester units (35 quarter units) of lower division CSU transferable community college work may be applied for students who have completed a two-year Community College program in Computer Aided Design, Electronics, Manufacturing Technology, Power/Energy/Transportation, or a similar Technology-oriented program.

The committee recommended changes in the conditions of enrollment as follows:

1. Welding 10A: remove conditions of enrollment
2. Welding 10B: Recommended Preparation Welding 10A
3. Welding 10C: Prerequisite Welding 10B with a minimum grade of C or equivalent

Chair Lipe called a motion to approve the welding course proposals and recommended conditions of enrollment changes for Welding 10A, 10B, and 10C. L. Kjeseth moved, V. Nemie seconded, and the motion passed unanimously.

Welding 40A, 40B, and 40C

The Welding Department is also proposing to replace Welding 40 (formerly Welding 40abcd) with Welding 40A, 40B, and 40C. CSU/UC transferability is also a concern. Welding 40B has parallel courses at California Community Colleges and to out-of-state colleges, but parallel courses could not be located at CSU/UC colleges. In comparison, California Community Colleges were identified for Welding 40A and 40C, but parallel courses were not identified at the CSU/UCs or out-of-state college system.

The committee recommended the following changes:

1. Welding 40A: remove conditions of enrollment
2. Welding 40B: Recommended Preparation Welding 40A
3. Welding 40C: Prerequisite Welding 40B with a minimum grade of C or equivalent.
4. Edit Catalog Description for Welding 40C: Change “in which” to “that”.

Chair Lipe called a motion to approve the welding course proposals and recommended conditions of enrollment changes for Welding 40A, 40B, and 40C. E. French-Preston moved, W. Brownlee seconded, and the motion passed unanimously.

Welding Associate in Science Degree and Certificate of Achievement

In addition, the committee advised the Welding Department to include a “recommended electives” statement in the degree program of study in case a waiver is requested for Welding

10A or 40A, such as “Students granted course credit for Welding 10A or Welding 40A may take an elective to satisfy the unit requirement for the degree and certificate.”

A motion was made to approve the proposed changes to the Welding degree and certificate program with the condition to include the “recommended electives” statement. D. Shrader moved, V. Nemie seconded, and the motion passed unanimously.

Architecture Associate in Science Degree

The division deans and faculty have made a decision to place Environmental Technology 165 with the electives and maintain total units at 35-36 units.

Architecture Certificate of Achievement

The division deans and faculty have made a decision to remove the general requirement of English A and include Environmental Technology 165 with the electives, reducing total unit range from 35-39 to 35-36 units.

Chair Lipe called a motion to approve the proposed changes to the Architecture degree and certificate. E. French-Preston moved, V. Nemie seconded, and the motion passed unanimously.

Health Sciences and Athletics

Physical Education 20abc, 21abc, 57abc, 58abc, 75abc, and 76abc

The Physical Education Department is proposing changes to physical education courses with descriptive titles containing specific gender. Removing the word "Women's" or “Men’s” from descriptive titles will allow the district to maximize enrollment and provide equal opportunity for athletic participation without issues of fill rate or course cost. The committee recommended a hyphen be added between "Off-Season" in descriptive title for consistency.

A motion was called to approve the Physical Education courses including changes to the conditions of enrollment. L. Kjeseth moved, D. Pahl seconded, and the motion passed unanimously.

CURRICULUM REVIEW - Standard Technical Review/Consent Agenda Proposals

The committee discussed the unresolved issues and concerns that were raised during the Standard Technical Review process and made the following recommendations:

Natural Sciences Division

Geology 15 – Natural Disaster

Consider replacing textbook with the 2014 4th edition of Keller & DeVecchio's Natural Hazards.

Mathematics 130 – College Algebra

The Mathematics Department concurred with the committee to include a “note” under the catalog description to reference Mathematics 130 as a preparatory course for Mathematics 160. Chair Lipe called a motion to approve the referenced note including changes to the conditions of enrollment. D. Pahl moved, W. Brownlee seconded, and the motion passed unanimously.

Fine Arts Division

Music 215B – Music History and Literature – 1750 to Present

Remove English 84 reading objective from the matching skill - Writing an Essay.

Music 259abcd – Music Production Workshop

1. Change laboratory hours from 3.00 hours per week to “3.00 hours per week TBA”.
2. Consider adding the words "and intercollegiate competition" at the end of course objective #7 listed in section II Outcomes and Objectives.

Music 265abcd – Symphonic Band

Reduce independent study hours per week to 2 hours to coincide with the 1.5 unit value of the course.

Chair Lipe called a motion to approve the other eight Standard Technical Review/Consent Agenda Proposals and all amended recommendations made by the committee. V. Nemie moved, W. Brownlee seconded, and the motion passed unanimously.

In addition, a motion was made to approve the course inactivations. W. Brownlee moved, L. Kjeseth seconded, and the motion passed unanimously.

The committee reviewed the proposed course number changes for the film and photography courses. Course reviews will be conducted during the six year review. A motion was called to approve the course number changes. D. Pahl moved, E. French-Preston seconded, and the motion passed unanimously.

Full Program Review

The following degrees and certificates were reviewed and are ready for final action:

1. Architecture Associate in Science Degree
2. Architecture Certificate of Achievement
3. Welding Associate in Science Degree
4. Welding Certificate of Achievement

Full Course Review

The following courses were reviewed and are ready for final action:

1. English 50RWA (ENGL 50RWA)
2. Welding 10A (WELD 10A)
3. Welding 10B (WELD 10B)
4. Welding 10C (WELD 10C)
5. Welding 40A (WELD 40A)
6. Welding 40B (WELD 40B)
7. Welding 40C (WELD 40C)
8. Physical Education 20abc (PE 20abc)
9. Physical Education 21abc (PE 21abc)
10. Physical Education 57abc (PE 57abc)
11. Physical Education 58abc (PE 58abc)
12. Physical Education 75abc (PE 75abc)

13. Physical Education 76abc (PE 76abc)

Standard Review/Consent Agenda Proposals

The following courses were reviewed and are ready for final action:

1. French 2 (FREN 2)
2. French 3 (FREN 3)
3. Geology 15 (GEOL 15)
4. Mathematics 130 (MATH 130)
5. Music 215B (MUSI 215B)
6. Music 259abcd (MUSI 259abcd)
7. Music 262abcd (MUSI 262abcd)
8. Music 263abcd (MUSI 263abcd)
9. Music 265abcd (MUSI 265abcd)

The following course inactivations were approved and are ready for final action:

1. English 50RR (ENGL 50RR)
2. English 50WW (ENGL 50WW)
3. Journalism 2 (JOUR 2)
4. Music 103 (MUSI 103)
5. Music 208A (MUSI 208A)
6. Music 208B (MUSI 208B)
7. Music 560 (MUSI 560)
8. Music 561 (MUSI 561)
9. Music 562 (MUSI 562)
10. Music 563 (MUSI 563)
11. Music 576 (MUSI 576)
12. Physical Education 25abc (PE 25abc)
13. Physical Education 26abc (PE 26abc)
14. Physical Education 125abc (PE 125abc)
15. Physical Education 126abc (PE 126abc)
16. Physical Education 130abc (PE 130abc)
17. Physical Education 131abc (PE 131abc)
18. Welding 21 (WELD 21)

The following course number changes were approved and are ready for final action:

1. Film 110 (formerly FILM 1)
2. Film 113 (formerly FILM 3)
3. Film 114 (formerly FILM 4)
4. Film 120 (formerly FILM 20)
5. Film 121 (formerly FILM 21)
6. Film 122 (formerly FILM 22)
7. Film 124 (formerly FILM 24)
8. Film 128 (formerly FILM 28)
9. Film 151 (formerly FILM 51)
10. Film 152 (formerly FILM 52)
11. Film 153 (formerly FILM 53)
12. Film 154 (formerly FILM 54)

13. Film 232 (formerly FILM 32)
14. Film 234 (formerly FILM 34)
15. Film 236 (formerly FILM 36)
16. Photography 101 (formerly PHOT 51)
17. Photography 102 (formerly PHOT 1)
18. Photography 106 (formerly PHOT 10)
19. Photography 202 (formerly PHOT 2)
20. Photography 203 (formerly PHOT 3)
21. Photography 204 (formerly PHOT 4)
22. Photography 206ab (formerly PHOT 11ab)
23. Photography 223A (formerly PHOT 23A)
24. Photography 223B (formerly PHOT 23B)
25. Photography 254 (formerly PHOT 54)
26. Photography 257 (formerly PHOT 57)

CHAIR'S REPORT

Chair Lipe thanked the committee for their accomplishment in reviewing over 200 courses despite their busy schedules. If anyone is interested in receiving 4 hours of flex credit for serving on the committee, you may log onto the Professional Development Reporter to record your hours.

ADVISORY REPORT

Q. Chapman provided a handout of the revised Curriculum Review Timeline for spring 2014 which listed the names of the faculty floating representatives assigned to support the Standard Technical Review Subcommittee. A copy of the revised timeline will be emailed to division deans.

L. Suekawa informed the committee the Chancellor's Office will reject any AA-T degree if courses do not have an approved Course Identification Descriptor (C-ID).

ADJOURNMENT

Chair Lipe called for a motion to adjourn the meeting. L. Kjeseth moved, D. Pahl seconded, and the motion was carried. The meeting was adjourned at 4:20 p.m.

EL CAMINO COLLEGE

COLLEGE CURRICULUM COMMITTEE

December 3, 2013

Approved Curriculum Changes for 2014-2015

FINE ARTS

COURSE REVIEW

1. Music 215B – Music History and Literature - 1750 to Present
2. Music 262abcd – Percussion Ensembles
3. Music 263abcd – Clarinet Choir
4. Music 265abcd – Symphonic Band

COURSE REVIEW; CHANGES IN LAB CONTACT HOURS, CATALOG DESCRIPTION

1. Music 259abcd – Music Production Workshop
Current Status/Proposed Changes
Units: 1.0 Hours of Lab: 3 hours lab per week to be arranged

This course provides experience ~~offers the opportunity to participate~~ in a musical theatre production as a member of the chorus or as a soloist. Students will participate in the Kennedy Center American College Theater Festival (KCACTF) competition.

Recommendation

Units: 1.0 Hours of Lab: 3 hours lab per week to be arranged

This course provides experience in a musical theatre production as a member of the chorus or as a soloist. Students will participate in the Kennedy Center American College Theater Festival (KCACTF) competition.

CHANGES IN COURSE NUMBER

1. Film 4-110 – Creative Photographic Processes
2. Film 3 113 – Screenplay Analysis
3. Film 4 114 – Story Development
4. Film 20 120 – Introduction to Film/Video Production

5. Film ~~21~~ 121 – Audio Production
6. Film ~~22~~ 122 – Production I
7. Film ~~24~~-124 – Production Planning
8. Film ~~28~~ 128 – Television Production
9. Film ~~51~~ 151 – Film and Popular Music in Post-World War II America
10. Film ~~52~~ 152 – Film, Culture, and Technology
11. Film ~~53~~ 153 – American Independent Cinema
12. Film ~~54~~ 154 – Regional Cinemas
13. Film ~~32~~-232 – Production II
14. Film ~~34~~ 234 – Camera and Lighting
15. Film ~~36~~ 236 – Editing
16. Photography ~~51~~ 101 – Elementary Photography
17. Photography ~~1~~ 102 – Basic Photography
18. Photography ~~10~~ 106 – Basic Photojournalism
19. Photography ~~2~~ 202 – Intermediate Photography
20. Photography ~~3~~ 203 – Advanced Photography
21. Photography ~~4~~ 204 – Portraiture
22. Photography ~~11ab~~ 206ab – Advanced Photojournalism
23. Photography ~~23A~~ 223A – Theory of Color/Color Printing
24. Photography ~~23B~~ 223B – Intermediate Color Photography/Color Printing
25. Photography ~~54~~ 254 – Intermediate 35mm Black and White Photography
26. Photography ~~57~~ 257 – Creative Photographic Processes

INACTIVATE COURSES

1. Music 103 – Introduction to Music Theory
2. Music 208A – Counterpoint I
3. Music 208B – Counterpoint II
4. Music 560 – Woodwind Ensembles for the Older Adult
5. Music 561 – Brass Ensembles for the Older Adult
6. Music 562 – Percussion Ensembles for the Older Adult
7. Music 563 – String Ensembles for the Older Adult
8. Music 576 – Clarinet Choir for the Older Adult

HEALTH SCIENCES AND ATHLETICS

COURSE REVIEW; CHANGES IN DESCRIPTIVE TITLE, CONDITIONS OF ENROLLMENT (Pre/Corequisite, Recommended Preparation, or Enrollment Limitation)

Current Status/Proposed Changes

1. Physical Education 20abc – ~~Women's~~ Intercollegiate Cross Country ~~Team~~ Teams

~~Enrollment Limitation: tryout (high school varsity experience or equivalent skill)~~
~~Intercollegiate Athletics~~

Recommended Preparation: high school varsity experience or equivalent skill

Recommendation

Physical Education 20abc – Intercollegiate Cross Country Teams

Recommended Preparation: high school varsity experience or equivalent skill

Current Status/Proposed Changes

2. Physical Education 57abc – ~~Men's~~ Intercollegiate Swimming ~~Team~~ Teams

~~Enrollment Limitation: tryout (high school varsity experience or equivalent skill)~~
~~Intercollegiate Athletics~~

Recommended Preparation: high school varsity experience or equivalent skill

Recommendation

Physical Education 57abc – Intercollegiate Swimming Teams

Recommended Preparation: high school varsity experience or equivalent skill

Current Status/Proposed Changes

3. Physical Education 75abc – ~~Men's~~ Intercollegiate Track and Field ~~Team~~ Teams

~~Enrollment Limitation: tryout (high school varsity experience or equivalent skill)~~
~~Intercollegiate Athletics~~

Recommended Preparation: high school varsity experience or equivalent skill

Recommendation

Physical Education 75abc – Intercollegiate Track and Field Teams

Recommended Preparation: high school varsity experience or equivalent skill

COURSE REVIEW; CHANGE IN DESCRIPTIVE TITLE

Current Status/Proposed Changes

1. Physical Education 21abc – Off-Season Training for ~~Women's~~ Intercollegiate Cross Country ~~Team~~ Teams

Recommendation

Physical Education 21abc – Off-Season Training for Intercollegiate Cross Country Teams

Current Status/Proposed Changes

2. Physical Education 58abc – Off-Season Training for ~~Men's~~ Intercollegiate Swimming ~~Team~~ Teams

Recommendation

Physical Education 58abc – Off-Season Training for Intercollegiate Swimming Teams

Current Status/Proposed Changes

3. Physical Education 76abc – Off-Season Training for ~~Men's~~ Intercollegiate Track and Field ~~Team~~ Teams

Recommendation

Physical Education 76abc – Off-Season Training for Intercollegiate Track and Field Teams

INACTIVATE COURSES

1. Physical Education 25abc – Men's Intercollegiate Cross Country Team
2. Physical Education 26abc – Off-Season Training for Men's Intercollegiate Cross Country Team
3. Physical Education 125abc – Women's Intercollegiate Swimming Team

4. Physical Education 126abc – Off-Season Training for Women's Intercollegiate Swimming Team
5. Physical Education 130abc – Women's Intercollegiate Track and Field Team
6. Physical Education 131abc – Off-Season Training for Women's Intercollegiate Track and Field Team

HUMANITIES

NEW COURSE

1. English 50RWA – Integrated Reading and Writing
 Units: 5.0 Lecture: 4.0 Hours of Lab: 2.0 Faculty Load: 36.667%
 Prerequisite: credit in English B and credit in English 82 or qualification by testing (English Placement Test) and assessment
 Grading Method: Pass/No Pass
 Credit Status: Associate Degree Credit

This course prepares students for transfer-level reading and writing tasks. The course integrates the reading and writing processes and includes weekly one-on-one focused tutorial support. Students practice analyzing and evaluating primarily non-fiction texts as the basis for composing well-developed expository essays. Students develop skills in reading comprehension, vocabulary, essay writing, sentences structure, research techniques, and source documentation.

COURSE REVIEW; GENERAL EDUCATION REQUIREMENT

1. French 2 – Elementary French II
Current Status/Proposed Changes
Proposed IGETC – Area 3B

Recommendation
 Proposed IGETC – Area 3B

2. French 3 – Intermediate French I
Current Status/Proposed Changes
Proposed IGETC – Area 3B

Recommendation
 Proposed IGETC – Area 3B

INACTIVATE COURSES

1. English 50RR – Developmental Reading: Skills to Analysis
2. English 50WW – Developmental Writing: Paragraph to Essay
3. Journalism 2 – Public Relations Methods

INDUSTRY AND TECHNOLOGY

NEW COURSES

1. Welding 10A – Introduction to Shielded Metal Arc Welding (SMAW)
Units: 4.0 Lecture: 2.5 Hours of Lab: 5.0 Faculty Load: 41.67%
Grading Method: Letter grade or pass/no pass option
Credit Status: Associate Degree Credit
CSU Transfer

This course is designed for the beginning student. Students will develop manipulative skills using the oxy-gas and Shielded Metal Arc Welding (SMAW) processes. Emphasis is placed on safety procedures, use of manual and semi-automatic welding equipment, welding techniques, electrodes and joints. Practical aspects of Flux Core Arc Welding (FCAW) process will be introduced.

2. Welding 10B – Intermediate Shielded Metal Arc Welding (SMAW)
Units: 4.0 Lecture: 2.5 Hours of Lab: 5.0 Faculty Load: 41.67%
Recommended Preparation: Welding 10A
Grading Method: Letter grade or pass/no pass option
Credit Status: Associate Degree Credit
CSU Transfer

This course is designed for the intermediate student. Students will develop manipulative skills using the semi-automatic and Shielded Metal Arc Welding (SMAW) processes. The course emphasizes the theory and practice of V-groove joint preparation, vertical (3G) and overhead (4G) welding, thermal cutting, and blueprint reading based on the American Welding Society (AWS) standards in weld symbols and ferrous alloys. Innershield wire (NR232) and dual shield wire will be explored in Flux Core Arc Welding (FCAW).

3. Welding 10C – Advanced Certification and Career Preparation Lab
Units: 2.0 Lecture: 0 Hours of Lab: 6.0 Faculty Load: 30.00%
Prerequisite: Welding 10B with a minimum grade of C or equivalent

Grading Method: Letter grade or pass/no pass option
Credit Status: Associate Degree Credit
CSU Transfer

This advanced level welding lab is third of a series specifically designed for students to refine their welding skills in E7018 electrodes used in structural steel Shielded Metal Arc Welding (SMAW), Flux Core Arc Welding (FCAW), and E6010 electrodes used in open root welding of ferrous metals in the vertical (3G) and overhead (4G) position. Taken in succession, this course prepares students to advance to level III in American Welding Society (AWS) national skill standards.

4. Welding 40B – Intermediate Gas Tungsten Arc Welding (GTAW)
Units: 3.0 Lecture: 2.0 Hours of Lab: 4.0 Faculty Load: 33.333%
Recommended Preparation: Welding 40A
Grading Method: Letter grade or pass/no pass option
Credit Status: Associate Degree Credit
CSU Transfer

This is an intermediate course in Gas Metal Arc Welding (GTAW). Special emphasis is placed on the welding of ferrous and non-ferrous metals in the various positions and building skill development in GTAW. This course continues student preparation toward the American Welding Society (AWS) D17.1 certification.

5. Welding 40C – Advanced Gas Tungsten Arc Welding (GTAW) Skills Lab
Units: 2.0 Lecture: 0 Hours of Lab: 6.0 Faculty Load: 30.00%
Prerequisite: Welding 40B with a minimum grade of C or equivalent
Grading Method: Letter grade or pass/no pass option
Credit Status: Associate Degree Credit
CSU Transfer

This course is designed to develop the advanced specialized skills used within the structural steel, sheet metal, and aerospace manufacturing industries using the Gas Tungsten Arc Welding (GTAW) process. Repair of cast welding and tooling maintenance will be introduced. Students will develop various specialized skills that will help achieve students' goals and attain the necessary traits that employers are seeking. This course prepares students for American Welding Society (AWS) D17.1 certification.

COURSE REVIEW; CHANGES IN COURSE NUMBER, DESCRIPTIVE TITLE, CATALOG DESCRIPTION

Current Status/Proposed Changes

1. Welding 40 ~~40A~~ – Introduction to Gas Tungsten Arc Welding (GTAW)

~~In this course, students will develop~~ This course is designed for the beginning student. Students develop manipulative skills using the Gas Tungsten Arc Welding (GTAW) process on ferrous and non-ferrous alloys. Emphasis is placed on the requirements for certification in accordance with Related classroom instruction covers technical data pertaining to this welding process with special emphasis on operational parameters of inverter type machines. This course begins preparation for eligibility for American Welding Society (AWS) D.17.1:2001, specifications for fusion welding for aerospace applications D17.1 certification.

Recommendation

Welding 40A – Introduction to Gas Tungsten Arc Welding (GTAW)

This course is designed for the beginning student. Students develop manipulative skills using the Gas Tungsten Arc Welding (GTAW) process on ferrous and non-ferrous alloys. Related classroom instruction covers technical data pertaining to this welding process with special emphasis on operational parameters of inverter type machines. This course begins preparation for eligibility for American Welding Society (AWS) D17.1 certification.

CHANGE IN MAJOR; COURSE REQUIREMENTS

1. Architecture A. S. Degree

Current Status/Proposed Changes

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

Major Requirements		Units
Architecture 100	An Orientation to Architecture	1
Architecture 104	History of Western Architecture	3
Architecture 119	Computer Aided Architectural Drafting	3
Architecture 150A	Architectural Drafting I	3
Architecture 150B	Architectural Drafting II	3
Architecture 170	Architectural Graphics Techniques	3

Architecture 171	Architectural Three-Dimensional Illustration	3
Architecture 199	Architecture Design Studio	4
12 - 13 units from:		
Architecture 121	Three-Dimensional Architectural Computer Aided Design	3
Architecture 125	Advanced Three-Dimensional Architectural Computer Aided Design	3
Architecture 158	Structures Analysis-Timber	3
Architecture 172	Architectural Color Rendering Techniques	3
Architecture 179	Design or Build Studio	4
<u>ET 165</u>	<u>Sustainable and Regenerative Practices in Site and Landscape Development</u>	<u>3</u>

Total Units: 35-36

Recommendation

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

Major Requirements		Units
Architecture 100	An Orientation to Architecture	1
Architecture 104	History of Western Architecture	3
Architecture 119	Computer Aided Architectural Drafting	3
Architecture 150A	Architectural Drafting I	3
Architecture 150B	Architectural Drafting II	3
Architecture 170	Architectural Graphics Techniques	3
Architecture 171	Architectural Three-Dimensional Illustration	3
Architecture 199	Architecture Design Studio	4
12 – 13 units from:		
Architecture 121	Three-Dimensional Architectural Computer Aided Design	3
Architecture 125	Advanced Three-Dimensional Architectural Computer Aided Design	3
Architecture 158	Structures Analysis-Timber	3
Architecture 172	Architectural Color Rendering Techniques	3
Architecture 179	Design or Build Studio	4
ET 165	Sustainable and Regenerative Practices in Site and Landscape Development	3

Total Units: 35-36

CHANGE IN CERTIFICATE OF ACHIEVEMENT; CHANGES IN COURSE REQUIREMENTS, UNITS

1. Architecture Certificate of Achievement

Current Status/Proposed Changes

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

Certificate Requirements		Units
ARCH 100	An Orientation to Architecture	1
ARCH 104	History of Western Architecture	3
ARCH 119	Computer Aided Architectural Drafting	3
ARCH 150A	Architectural Drafting I	3
ARCH 150B	Architectural Drafting II	3
ARCH 170	Architectural Graphics Techniques	3
ARCH 171	Architectural Three-Dimensional Illustration	3
ARCH 199	Architecture Design Studio	4
12 – 13 units from:		
ARCH 121	Three-Dimensional Architectural Computer Aided Design	3
ARCH 125	Advanced Three-Dimensional Architectural Computer Aided Design	3
ARCH 158	Structures Analysis-Timber	3
ARCH 172	Architectural Color Rendering Techniques	3
ARCH 179	Design or Build Studio	4
<u>ET 165</u>	<u>Sustainable and Regenerative Practices in Site and Landscape Development</u>	<u>3</u>

General Requirements:

~~English A or qualifying score for English 1A on English Placement Test (0-3)~~

Total Units: ~~35-39~~ 35-36

Recommendation

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

Certificate Requirements		Units
ARCH 100	An Orientation to Architecture	1
ARCH 104	History of Western Architecture	3
ARCH 119	Computer Aided Architectural Drafting	3
ARCH 150A	Architectural Drafting I	3
ARCH 150B	Architectural Drafting II	3
ARCH 170	Architectural Graphics Techniques	3
ARCH 171	Architectural Three-Dimensional Illustration	3
ARCH 199	Architecture Design Studio	4
12 – 13 units from:		
ARCH 121	Three-Dimensional Architectural Computer Aided Design	3
ARCH 125	Advanced Three-Dimensional Architectural Computer Aided Design	3
ARCH 158	Structures Analysis-Timber	3
ARCH 172	Architectural Color Rendering Techniques	3
ARCH 179	Design or Build Studio	4
ET 165	Sustainable and Regenerative Practices in Site and Landscape Development	3

Total Units: 35-36

CHANGE IN MAJOR; COURSE REQUIREMENTS, UNITS

1. Welding A. S. Degree
Current Status/Proposed Changes

Major Requirements		Units
<u>8 units from:</u>		
WELD 1	Introduction to Welding Process	8
or		

WELD 21	Basic Shielded Metal Arc Welding (SMAW)	3
and		
WELD 5	Basic Welding Technology	8
WELD 40	Gas Tungsten Arc Welding (GTAW)	3
<u>WELD 10A</u>	<u>Introduction to Shielded Metal Arc Welding (SMAW)</u>	<u>4</u>
<u>WELD 10B</u>	<u>Intermediate Shielded Metal Arc Welding (SMAW)</u>	<u>4</u>

15 units from:

<u>WELD 10C</u>	<u>Advanced Certification and Career Preparation Lab</u>	<u>2</u>
<u>WELD 40A</u>	<u>Introduction to Gas Tungsten Arc Welding (GTAW)</u>	<u>3</u>
<u>WELD 40B</u>	<u>Intermediate Gas Tungsten Arc Welding (GTAW)</u>	<u>3</u>
<u>WELD 40C</u>	<u>Advanced Gas Tungsten Arc Welding (GTAW)</u>	<u>2</u>
	<u>Skills Lab</u>	
WELD 45	Structural Fabrication	5

Total Units: ~~19-24~~ 23

Recommended Electives:

CADD 5	Introduction to Mechanical Drafting	3
MTT 16	General Metals	3
WELD 15	Basic Welding for Allied Fields	3
WELD 23	Advanced Arc Welding Specialty Lab	2
WELD 28	American Welding Society (AWS) D.1.1 Certification Test Preparation	3

Note: Students granted course credit for Welding 10A or Welding 40A may take an elective to satisfy the unit requirement for the degree and certificate.

Recommendation

Major Requirements **Units**

8 units from:

WELD 1	Introduction to Welding Process	8
WELD 10A	Introduction to Shielded Metal Arc Welding (SMAW)	4
WELD 10B	Intermediate Shielded Metal Arc Welding (SMAW)	4

15 units from:

WELD 10C	Advanced Certification and Career Preparation Lab	2
WELD 40A	Introduction to Gas Tungsten Arc Welding (GTAW)	3
WELD 40B	Intermediate Gas Tungsten Arc Welding (GTAW)	3
WELD 40C	Advanced Gas Tungsten Arc Welding (GTAW)	2

WELD 45	Skills Lab Structural Fabrication	5
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Total Units: 23

Recommended Electives:

CADD 5	Introduction to Mechanical Drafting	3
MTT 16	General Metals	3
WELD 15	Basic Welding for Allied Fields	3
WELD 23	Advanced Arc Welding Specialty Lab	2
WELD 28	American Welding Society (AWS) D.1.1 Certification Test Preparation	3

Note: Students granted course credit for Welding 10A or Welding 40A may take an elective to satisfy the unit requirement for the degree and certificate.

CHANGE IN CERTIFICATE OF ACHIEVEMENT; CHANGES IN COURSE REQUIREMENTS, UNITS

1. Welding Certificate of Achievement
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.

Certificate Requirements	Units	
<u>8 units from:</u>		
WELD 1	Introduction to Welding Process	8
or		
WELD 21	Basic Shielded Metal Arc Welding (SMAW)	3
and		
WELD 5	Basic Welding Technology	8
WELD 40	Gas Tungsten Arc Welding (GTAW)	3
<u>WELD 10A</u>	<u>Introduction to Shielded Metal Arc Welding (SMAW)</u>	<u>4</u>
<u>WELD 10B</u>	<u>Intermediate Shielded Metal Arc Welding (SMAW)</u>	<u>4</u>
 <u>16 units from:</u>		
<u>WELD 10C</u>	<u>Advanced Certification and Career Preparation Lab</u>	<u>2</u>
<u>WELD 28</u>	<u>American Welding Society (AWS)</u>	<u>3</u>

D.1.1 Certification Test Preparation

<u>WELD 40A</u>	<u>Introduction to Gas Tungsten Arc Welding (GTAW)</u>	<u>3</u>
<u>WELD 40B</u>	<u>Intermediate Gas Tungsten Arc Welding (GTAW)</u>	<u>3</u>
WELD 45	Structural Fabrication	5

2 units from:

<u>WELD 23</u>	<u>Advanced Arc Welding Specialty Lab</u>	<u>2</u>
<u>WELD 40C</u>	<u>Advanced Gas Tungsten Arc Welding (GTAW) Skills Lab</u>	<u>2</u>

Total Units: ~~19-24~~ 26

Note: Students granted course credit for Welding 10A or Welding 40A may take an elective to satisfy the unit requirement for the degree and certificate.

Recommendation

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.

Certificate Requirements

Units

8 units from:

WELD 1	Introduction to Welding Process	8
WELD 10A	Introduction to Shielded Metal Arc Welding (SMAW)	4
WELD 10B	Intermediate Shielded Metal Arc Welding (SMAW)	4

16 units from:

WELD 10C	Advanced Certification and Career Preparation Lab	2
WELD 28	American Welding Society (AWS) D.1.1 Certification Test Preparation	3
WELD 40A	Introduction to Gas Tungsten Arc Welding (GTAW)	3
WELD 40B	Intermediate Gas Tungsten Arc Welding (GTAW)	3
WELD 45	Structural Fabrication	5

2 units from:

WELD 23	Advanced Arc Welding Specialty Lab	2
WELD 40C	Advanced Gas Tungsten Arc Welding (GTAW) Skills Lab	2

Total Units: 26

Note: Students granted course credit for Welding 10A or Welding 40A may take an elective to satisfy the unit requirement for the degree and certificate.

INACTIVATE COURSE

1. Welding 21 – Basic Shielded Metal Arc Welding (SMAW)

MATHEMATICAL SCIENCES

COURSE REVIEW; DISTANCE EDUCATION UPDATE, CHANGE IN CATALOG DESCRIPTION

1. Mathematics 130 – College Algebra
Current Status/Proposed Changes

In this course, students will explore polynomial, radical, rational, exponential, and logarithmic functions and their graphs, as well as sequences, ~~series, combinatorics,~~ and the Binomial Theorem and series.

Note: This is a preparatory course for Calculus I for the Biological, Management, and Social Sciences (Mathematics 160).

Recommendation

In this course, students will explore polynomial, radical, rational, exponential, and logarithmic functions and their graphs, as well as sequences and series.

Note: This is a preparatory course for Calculus I for the Biological, Management, and Social Sciences (Mathematics 160).

NATURAL SCIENCES

COURSE REVIEW

1. Geology 15 – Natural Disasters