

**EL CAMINO COLLEGE
MINUTES OF THE COLLEGE CURRICULUM COMMITTEE
APRIL 6, 2010**

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

Absent: F. Arce, S. Gates, S. Panksi, J. Sims

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

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

Also Present: S. Bartiromo, R. Elton Collett, T. Jackson, R. Lewis, J. Meredith, J. Schwartz, M. Stallings, J. Ruggirello

CALL TO ORDER

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

APPROVAL OF MINUTES

- The minutes from the March 16th meeting were sent via email and approved before today's meeting. Chair Kjeseth thanked the committee for the continued success of reviewing and approving the minutes electronically in a timely manner.

CURRICULUM REVIEW

Health Sciences and Athletics Proposals

- J. Schwartz, Dean of Health Sciences and Athletics, distributed errata sheets to the committee with course revisions.
- Sign Language/Interpreter Training 214 – S. Bartiromo fielded a question regarding Conditions of Enrollment in Section VIII of the course outline regarding the entrance skills. S. Bartiromo advised the committee this information was inadvertently left off of the course outline and the outline would be updated with the information. There were no further questions, and all recommendations were accepted and completed.
- Chair Kjeseth called for a motion to approve the course proposal. M. Lipe moved, J. Thompson seconded, and the motion was carried.

Industry and Technology Proposals

- T. Jackson, Associate Dean of Industry and Technology, distributed errata sheets to the committee with course revisions, and requirements for Associate in Science Degrees in Administration of Justice, Air Conditioning and Refrigeration, Electronics and Computer Hardware Technology, Engineering Technology, and Manufacturing Technology; Certificates of Achievement in Administration of Justice, Air Conditioning and Refrigeration, Electronics and Computer Hardware Technology, Engineering Technology, Fire and Emergency Technology, and Manufacturing Technology; and Certificates of Accomplishment in Electronics and Computer Hardware.
- Administration of Justice 67 – there was a question regarding repeatability, and it was noted that for this course, lowercase letters were not used; instead, a note would be inserted

along with the catalog description. There were no further questions, and all recommendations were accepted and completed.

- Administration of Justice 150 – All recommendations were accepted and completed. No questions were asked.
- Administration of Justice 155 – All recommendations were accepted and completed. No questions were asked.
- Administration of Justice – Associate in Science Degree – Administration of Justice 125 and 136 were not included on the errata sheet due to inactivation; however, the courses were still listed on the proposed major, and Q. Chapman requested they be removed. There were no further issues, and all recommendations were accepted and completed.
- Administration of Justice – Certificate of Achievement – All recommendations were accepted and completed. No questions were asked.
- Air Conditioning and Refrigeration – Associate in Science Degree – All recommendations were accepted and completed. No questions were asked.
- Air Conditioning and Refrigeration – Certificate of Achievement – A correction was made on the errata sheet and on the certificate, changing the units for Air Conditioning 20 from 4 to 3. The total units were correct at 39. There were no further questions, and all recommendations were accepted and completed.
- Architecture 199ab – On the errata sheet, a change was requested for Section IV, Outline of Subject matter, number XIV: replace ‘that’ with ‘where the’. The correction was approved and made. There were no further questions, and all recommendations were accepted and completed.
- Fashion 3 – This course has been inactivated and incorporated into Fashion 4ab.
- Fashion 4ab – T. Jackson fielded a question regarding students’ accessibility to Macintosh computers. It was stated that there are several brand new computers available for students’ use in the Computer Lab. There were no further questions, and all recommendations were accepted and completed.
- Electronics and Computer Hardware Technology – Associate in Science Degree – All recommendations were accepted and completed. No questions were asked.
- Electronics and Computer Hardware Technology – Certificate of Achievement: Computer Hardware Electronics Technician – All recommendations were accepted and completed. No questions were asked.
- Electronics and Computer Hardware Technology – Certificate of Achievement: Electronics Engineering Technician – All recommendations were accepted and completed. No questions were asked.
- Electronics and Computer Hardware Technology – Certificate of Achievement: Comprehensive Computer CompTIA Technician – All recommendations were accepted and completed. No questions were asked.
- Electronics and Computer Hardware Technology – Certificate of Accomplishment: CompTIA Computer Hardware Technician – All recommendations were accepted and completed. No questions were asked.
- Electronics and Computer Hardware Technology – Certificate of Accomplishment: Computer Hardware Technician – All recommendations were accepted and completed. No questions were asked.
- Engineering Technology – Associate in Science Degree – All recommendations were accepted and completed. No questions were asked.
- Engineering Technology – Certificate of Achievement – All recommendations were accepted and completed. No questions were asked.

- Fire and Emergency Technology – Certificate of Achievement – There was discussion regarding the unit values for Fire and Emergency Technology 115A and 115B (two semester sequence). These courses have never been offered at El Camino College and inactivation should be considered. T. Jackson will take the matter into consideration and advise the committee at a later date. All other recommendations were accepted and completed.
- Manufacturing and Technology – Associate in Science Degree – Grammatical corrections were made on errata sheet. All recommendations were accepted and completed. No questions were asked.
- Manufacturing and Technology – Certificate of Achievement – Q. Chapman requested that Manufacturing Technology 75A and 75B be added to the certificate. The request was approved and made. All other recommendations were accepted and completed.
- Chair Kjeseth called for a motion to approve all Associate in Science Degrees, Certificates of Achievement, Certificates of Accomplishment, course proposals, and conditions of enrollment. R. Hughes moved, J. Thompson seconded, and the motion was carried.

CONSENT AGENDA PROPOSALS

- The committee reviewed the consent agenda proposals. There were 14 course proposals on the agenda – Health Sciences and Athletics (3) and Industry and Technology (11).
- After review of the Consent Agenda, Chair Kjeseth asked for a motion to approve the proposals. R. Hughes moved, M. Lipe seconded, and the motion was carried.

CHAIR'S REPORT

- Six-Year Course Review Plans – What's Next?

Chair Kjeseth attended the recent Academic Senate meeting, where there was some discussion regarding six-year course review. We are moving to a four-year program review cycle. However, course review will remain as is at least until we succeed at a six-year course review cycle. There is no thought of a four-year course review at this time.

Only five six-year reports have been received; Chair Kjeseth encouraged faculty to submit six-year worksheets as soon as possible. B. Jaffe will send updated four-year program review timelines to DCC representatives. Chair Kjeseth fielded a question as to which divisions have submitted their six-year review cycle worksheets. They are: Fine Arts, Behavioral and Social Sciences, Humanities, and Health Sciences and Athletics (Physical Education classes only).

- CCC Chair Successor

Chair Kjeseth attended the recent Academic Senate meeting and informed them of our current situation regarding the lack of potential nominees for the position of CCC Chair. He informed the Academic Senate that he will be requesting they temporarily suspend the Bylaws in order to have a non-voting member nominated. Chair Kjeseth stated that the year of shadowing the current Chair is extremely important. The size of the job of Chair needs to be fixed – sufficient re-assignment is required. Once CurricUNET is in place, 67% should be acceptable, but it is not sufficient at this time. Chair Kjeseth informed the committee that nothing was resolved with the Academic Senate. There will be more CCC discussion of the subject at a future meeting.

- CurricUNET Progress Report

So far, there has been sparse attendance at the training sessions; however, it has been an enlightening experience for Chair Kjeseth, as he continues to find issues that need to be resolved. A model has been located for the SLO pages. We will, however, be designing our own program review module. After the initial DCC training, there will be preliminary training, with a mock DCC approval process. Beginning Fall 2010, CurricUNET, although not perfectly, should be up and running. The committee then discussed the Faculty's and Administrative Assistant's responsibilities in the matter of entering courses.

ADJOURNMENT

- Chair Kjeseth called for a motion to adjourn the meeting. M. Lipe moved, V. Lloyd seconded, and the motion carried. The meeting was adjourned at 3:55 p.m.

Note: Proposed curriculum changes will be effective Fall 2011 with the exception of courses required or restricted electives for the major/certificate. All major/certificate revisions were board approved May 17, 2010 in order to be implemented with the 2010-2011 El Camino College requirements.

EL CAMINO COLLEGE
COLLEGE CURRICULUM COMMITTEE
April 6, 2010

Proposed Curriculum Changes

HEALTH SCIENCES AND ATHLETICS DIVISION

COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION

1. Physical Education 400abcd - Adapted Fitness

Current Status/Proposed Change

This course is designed ~~to meet the needs of~~ for students with disabilities and provides personalized exercise programs. ~~Exercise programs may incorporate modifications when limitations are associated with a disability.~~ The components of physical fitness such as body composition, cardiovascular endurance, flexibility and strength will be discussed ~~in order to develop~~ with an understanding of ~~training principles, benefits of exercise, and conditioning strategies.~~ training principles. ~~Basic nutrition guidelines related to fitness will also be discussed.~~ Specialized adaptive exercise equipment is available.

Note: This course is designed for students with disabilities.

Recommendation:

This course is designed for students with disabilities and provides personalized exercise programs. The components of physical fitness such as body composition, cardiovascular endurance, flexibility and strength will be discussed with an understanding of benefits and training principles. Specialized adaptive exercise equipment is available.

Note: This course is designed for students with disabilities.

2. Physical Education 401abcd – Adapted Strength Training

Current Status/Proposed Change

This course provides strength training exercise for students with disabilities. Exercise programs are personalized and self-paced. ~~Specialized equipment is available to accommodate the needs of the students.~~ Fitness terminology, training principles, and the benefits from resistance exercise will be discussed. Major muscle groups will be identified ~~in~~ with their function and application to specific exercises. Specialized adaptive exercise equipment is available.

Note: This course is designed for students with disabilities.

Recommendation:

This course provides strength training exercise for students with disabilities. Exercise programs are personalized and self-paced. Fitness terminology, training principles, and the benefits from resistance exercise will be discussed. Major

muscle groups will be identified with their function and application to specific exercises. Specialized adaptive exercise equipment is available.

Note: This course is designed for students with disabilities.

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

1. Physical Education 404abcd – Adapted Cardiovascular Fitness

Current Status/Proposed Change

Proposed for the CSU General Education Pattern in Area E.

This course provides cardiovascular exercise for students with disabilities. Aerobic and/or anaerobic conditioning will be performed with an understanding of monitoring exercise intensity. Exercise programs are personalized and self-paced. ~~Specialized equipment is available to accommodate the needs of the students.~~

Fitness terminology, training principles, and benefits associated with cardiovascular exercise will be discussed. Specialized adaptive equipment is available.

Note: This course is designed for students with disabilities.

Recommendation:

Proposed for the CSU General Education Pattern in Area E.

This course provides cardiovascular exercise for students with disabilities. Aerobic and/or anaerobic conditioning will be performed with an understanding of monitoring exercise intensity. Exercise programs are personalized and self-paced.

Fitness terminology, training principles, and benefits associated with cardiovascular exercise will be discussed. Specialized adaptive equipment is available.

Note: This course is designed for students with disabilities.

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

1. Sign Language/Interpreter Training 214 - Fingerspelling and Numerical Concepts

Current Status/Proposed Change

Lecture: ~~None~~ 1 hour Lab: ~~3~~ 2 hours Faculty Load: ~~45%~~ 16.667%

Prerequisite: ~~None~~ Sign Language/Interpreter Training 15 with a minimum grade of C

This course is designed to provide beginning and advanced practice with the sign language component known as fingerspelling. ~~Through the use of video tapes, drills, and exercises, the student will receive practice in comprehending and using the manual alphabet~~ Skill development for expressive and receptive fingerspelling, numerical concepts, and lexicalized signs will enhance the student's ability to comprehend and utilize fingerspelling with accuracy and clarity.

Recommendation:

Lecture: 1 hour Lab: 2 hours Faculty Load: 16.667%

Prerequisite: Sign Language/Interpreter Training 15 with a minimum grade of C

This course is designed to provide beginning and advanced practice with the sign language component known as fingerspelling. Skill development for expressive and receptive fingerspelling, numerical concepts, and lexicalized signs will enhance the student's ability to comprehend and utilize fingerspelling with accuracy and clarity.

INDUSTRY AND TECHNOLOGY DIVISION

COURSE REVIEW

1. Administration of Justice 133 – Fingerprint Classification and Investigation
2. Administration of Justice 140 – Basic Security Officer Training
3. Administration of Justice 190 – Law Enforcement Explorer Academy

COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION

1. Administration of Justice 15 – Introduction to Vice and Narcotics Investigation

Current Status/Proposed Change

~~This course is an introduction to the problems in the areas of drugs and vice. The introductory course will describe various types of drugs and their effects. The elements of vice under California codes including that presents an overview of vice crimes such as illegal narcotics and drugs, gambling, and prostitution, and narcotics will be covered. The roles of law enforcement and other social agencies in dealing with problems of drugs and vice are presented. the special problems those crimes create for law enforcement, the criminal justice system and society.~~

Recommendation:

This is an introductory course that presents an overview of vice crimes, such as illegal narcotics and drugs, gambling, and prostitution, and the special problems those crimes create for law enforcement, the criminal justice system and society.

2. Administration of Justice 60 – Search Warrants

Current Status/Proposed Change

This P.O.S.T. certified course is designed to teach field personnel and new investigators how to write search warrants and how to complete telephonic, fax, email, and oral search warrants.

Note: Pass/no pass only. This course is repeatable.

Recommendation:

This P.O.S.T. certified course is designed to teach field personnel and new investigators how to write search warrants and how to complete telephonic, fax, email, and oral search warrants.

Note: Pass/no pass only. This course is repeatable.

3. Administration of Justice 107 Crime and Control – An Introduction to Corrections

Current Status/Proposed Change

This is a basic course covering crime, criminal behavior and social attempts at controlling ~~that~~ such behavior. Emphasis in this course is placed on traditional types of punishment, such as incarceration, as well as rehabilitation, probation, parole, and diversion. Incarceration issues include officer and inmate safety, physical security aspects of prison, and prisoner discipline and code of conduct. Rehabilitation topics include education, job skills training and parole. This course covers the basic career skills and knowledge required for employment as detention officers in custodial institutions, probation and parole.

Recommendation:

This is a basic course covering crime, criminal behavior and social attempts at controlling such behavior. Emphasis in this course is placed on traditional types of punishment, such as incarceration, as well as rehabilitation, probation, parole, and diversion. Incarceration issues include officer and inmate safety, physical security aspects of prison, and prisoner discipline and code of conduct. Rehabilitation topics include education, job skills training and parole. This course covers the basic career skills and knowledge required for employment as detention officers in custodial institutions, probation and parole.

4. Administration of Justice 109 – Introduction to Police Patrol Procedures

Current Status/Proposed Change

This course covers the study of the history and development of police patrol. Topics covered include functions of patrol; investigative duties of the field officer; techniques for planning patrol activities; handling complaints and requests for service; field interviews; searches and arrests; civil and domestic disturbances; and the handling of traffic related problems.

Recommendation

This course covers the study of the history and development of police patrol. Topics covered include functions of patrol; investigative duties of the field officer; techniques for planning patrol activities; handling complaints and requests for service; field interviews; searches and arrests; civil and domestic disturbances; and the handling of traffic related problems.

5. Administration of Justice 111 – Criminal Investigation

Current Status/Proposed Change

This course ~~is a study of~~ covers the fundamentals of criminal investigation. Topics ~~covered~~ should include the techniques of crime scene search and recording; collection and preservation of physical evidence; modus operandi processes; sources of information; interview and interrogation; and follow-up investigation.

Recommendation:

This course covers the fundamentals of criminal investigation. Topics should include the techniques of crime scene search and recording; collection and preservation of physical evidence; modus operandi processes; sources of information; interview and interrogation; and follow-up investigation.

6. Architecture 150B – Architectural Drawing II

Current Status/Proposed Change

This course is an advanced-level architectural drafting ~~class~~ course covering residential buildings. ~~The student will develop working drawings~~ Sketching techniques and computer drawing techniques will be developed to create a set of construction documents for a two-story residence on a low sloping site. Instruction will stress the construction process, structural detailing and uniform building code requirements for Current zoning and building codes will be explored to understand the impact they have on the design of a residential Type V construction dwelling.

Recommendation:

This course is an advanced-level architectural drafting course covering residential buildings. Sketching techniques and computer drawing techniques will be developed to create a set of construction documents for a two-story residence on a sloping site. Current zoning and building codes will be explored to understand the impact they have on the design of a residential dwelling.

COURSE REVIEW; CHANGES IN GRADING METHOD, CATALOG DESCRIPTION NOTE

1. Administration of Justice 49 – Laws of Arrest and Firearms – Penal Code 832

Current Status/Proposed Change

Grading Method: ~~Letter~~ Both

This class is designed to meet the minimum requirements for training as required by Penal Code Section 832 and certified by the California Commission on Peace Officer Standards and Training (P.O.S.T.). The course is certified by P.O.S.T. in the areas of laws of arrest and ethical use of force, arrest methods, and control and firearms training. The course has 45 hours of lecture covering the California laws of arrest and firearms, 9 hours of training in arrest methods and control, and 18 hours of training in the use of firearms for a total of 72 hours. The course will cover the basic fundamentals of the laws of arrest; arrest methods and controls; and the basic principles of firearms training, which will enhance an individual's ability to meet the

State's minimum requirements for employment in a law enforcement or allied agency.

Note: Letter grade or pass/no pass option.

Recommendation:

Grading Method: Both

This class is designed to meet the minimum requirements for training as required by Penal Code Section 832 and certified by the California Commission on Peace Officer Standards and Training (P.O.S.T.). The course is certified by P.O.S.T. in the areas of laws of arrest and ethical use of force, arrest methods, and control and firearms training. The course has 45 hours of lecture covering the California laws of arrest and firearms, 9 hours of training in arrest methods and control, and 18 hours of training in the use of firearms for a total of 72 hours. The course will cover the basic fundamentals of the laws of arrest; arrest methods and controls; and the basic principles of firearms training, which will enhance an individual's ability to meet the State's minimum requirements for employment in a law enforcement or allied agency.

Note: Letter grade or pass/no pass option.

COURSE REVIEW; CHANGES IN CONDITIONS OF ENROLLMENT (Prerequisite, Corequisite, Recommended Preparation, or Enrollment Limitation), FACULTY LOAD, UNITS, LECTURE/LAB HOURS

1. Administration of Justice 67 – Continuing Professional Training

Current Status/Proposed Change

Units: 0.5–2 Lecture: 9–36 hours (one week course)

Faculty Load: ~~60.0003–240.012~~ 60.0%

Enrollment Limitation: possession of a Commission of Peace Officer Standards and Training P.O.S.T. certificate

Recommendation:

Units: 0.5 Lecture: 9 hours (one week course)

Faculty Load: 60.0%

Enrollment Limitation: possession of a Commission of Peace Officer Standards and Training P.O.S.T. certificate

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

1. Administration of Justice 150 – Peace Officer Training Module – Level III

Current Status/Proposed Change

Enrollment Limitation:

1. Current ~~M~~medical examination, conducted within six months (for safety and college liability reasons);

2. Students must apply for and receive a California Department of Justice Firearms and Arrest Clearance (Penal Code 13511.5)

This course is designed for California Commission on Peace Officer Standards and Training (P.O.S.T.) certified Training Module – Level III peace officer training candidates. A Level III peace officer may perform specified limited support duties that are not likely to result in physical arrests. The student will participate in a 216 hours course of instruction and training emphasizing basic law enforcement philosophy, procedures, tactics, and techniques. The course is certified pursuant to California Penal Code Section 836.6.

Note: Students who have earned credit in Administration of Justice 155 cannot receive unit credit for Administration of Justice 150.

Recommendation:

Enrollment Limitation:

1. Current medical examination conducted within six months (for safety and college liability reasons)
2. Students must apply for and receive a California Department of Justice Firearms and Arrest Clearance (Penal Code 13511.5)

This course is designed for California Commission on Peace Officer Standards and Training (P.O.S.T.) certified Training Module – Level III peace officer training candidates. A Level III peace officer may perform specified limited support duties that are not likely to result in physical arrests. The student will participate in a 216 hour course of instruction and training emphasizing basic law enforcement philosophy, procedures, tactics, and techniques. The course is certified pursuant to California Penal Code Section 836.6.

Note: Students who have earned credit in Administration of Justice 155 cannot receive unit credit for Administration of Justice 150.

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

1. Administration of Justice 155 – Peace Officer Training Module – Level II

Current Status/Proposed Change

Prerequisite: ~~Administration of Justice 150 with a minimum grade of C or equivalent~~ Possession of a current Commission of Peace Officer Standards and Training (P.O.S.T.) certified Level III certificate.

Enrollment Limitation:

1. ~~Current Penal Code 832 (P.C. 832) certification valid within the last three years;~~
2. ~~Current Cardio Pulmonary Resuscitation (C.P.R.) and First Aid certification;~~
3. 1. Current medical examination, (valid conducted within 6 months) (for safety and liability reasons);
4. 2. Current California Department of Justice Firearms and Arrest Clearance (Penal Code Section 13511.5) (valid obtained within 6 months).

Recommendation:

Prerequisite: Possession of a current Commission of Peace Officer Standards and Training (P.O.S.T.) certified Level III certificate.

Enrollment Limitation:

1. Current medical examination conducted within 6 months (for safety and liability reasons).
2. Current California Department of Justice Firearms and Arrest Clearance (Penal Code Section 13511.5) (obtained within 6 months).

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

1. Architecture 199abcd – Architectural Design Studio

Current Status/Proposed Change

Lab: 6 hours ~~to be arranged~~

Prerequisite: Architecture ~~150B~~, 170 and 171 with a minimum grade of C in each prerequisite course

~~In this course, introduces the advanced students~~ learn how to balance the design constraints to the factors that architects face observe when solving architectural formulating the solution to a problems. Students will design and compose two and three dimensional drawings as well as build models to demonstrate their solutions. Projects will increase in size and scope each time the student takes the course.

Recommendation

Architecture 199abcd

Lab: 6 hours

Prerequisite: Architecture 170 and 171 with a minimum grade of C in each prerequisite course

In this course, students learn how to balance the design constraints that architects face when solving architectural problems. Students will design and compose two and three dimensional drawings as well as build models to demonstrate their solutions. Projects will increase in size and scope each time the student takes the course.

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

1. Fashion 4ab – Computer Fashion Illustration

Current Status/Proposed Change

Units: ~~4~~ 3

Lecture: ~~0.5~~ 2 hours

Lab: ~~1.5~~ 4 hours

Faculty Load: ~~10.8333~~ 33.333

~~Prerequisite: Fashion 3 with a minimum grade of C or equivalent~~

Recommended Preparation: Fashion 15ab or equivalent

~~This course incorporates the use of a computer aided garment detail library with an illustrative software to sketch, illustrate and design apparel groups~~ introduces the use of illustration (vector) and photo-editing (raster) software (for example: Adobe Illustrator and Adobe Photoshop) to sketch, illustrate and design apparel and marketing material for fashion. Students will design and develop ~~line sheets, cost sheets and logos, hang tags, dressed croquis, apparel sketches, and mood boards~~ for fashion advertising.

Recommendation

Units: 3 Lecture: 2 hours Lab: 4 hours

Faculty Load: 33.333

Recommended Preparation: Fashion 15ab or equivalent

This course introduces the use of illustration (vector) and photo-editing (raster) software (for example: Adobe Illustrator and Adobe Photoshop) to sketch, illustrate and design apparel and marketing material for fashion. Students will design and develop logos, hang tags, dressed croquis, apparel sketches, and mood boards for fashion advertising.

INACTIVATE COURSE

1. Fashion 3 – Fashion Introduction to Macintosh

CHANGE IN MAJOR

1. Administration of Justice Major

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

Current Status/Proposed Change

Administration of Justice 100, 103, 115, 130, 131, 135, 170;

a minimum of six units from: Administration of Justice 70, 95/96abcd (2-4 units), 106, 107, 109, 111, ~~125~~, 126, 132, 133, 134, ~~136~~, 150, 155

Total Units: 27-32

Recommendation:

Administration of Justice 100, 103, 115, 130, 131, 135, 170;

a minimum of six units from: Administration of Justice 70, 95/96abcd (2-4 units), 106, 107, 109, 111, 126, 132, 133, 134, 150, 155

Total Units: 27-32

2. Air Conditioning and Refrigeration Major

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

Current Status/Proposed Change

Air Conditioning and Refrigeration 5, 6, 20, 21, 22, 23, 25, 27, 30, ~~31~~, 32, 34
Recommended electives: Air Conditioning and Refrigeration 95abcd, Computer Information Systems 13, Construction Technology 100, ~~Environmental Technology 100~~, Technical Mathematics 1
Total Units: ~~35~~ 36

Recommendation:

Air Conditioning and Refrigeration 5, 6, 20, 21, 22, 23, 25, 27, 30, 32, 34
Recommended electives: Air Conditioning and Refrigeration 95abcd, Computer Information Systems 13, Construction Technology 100, Technical Mathematics 1
Total Units: 36

3. Computer Aided Design/Drafting Major

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

Current Status/Proposed Change

Computer Aided Design/Drafting 5, 10abcd*, 28abcd*, 31abcd*, 32abcd*, 33abcd*, ~~34abcd*~~, 37abcd*, 45, 47, 49, Technical Mathematics 1;
one course from: Electronics and Computer Hardware Technology 11, 22, Machine Tool Technology 16ab, 46, 101abcd, Welding 15ab*, Art 141abcd*, 144abcd*, Computer Information Systems 13 (*one semester)
Total Units: ~~33-34~~ 31-32

Recommendation:

Computer Aided Design/Drafting 5, 10abcd*, 28abcd*, 31abcd*, 32abcd*, 33abcd*, 37abcd*, 45, 47, 49, Technical Mathematics 1;
one course from: Electronics and Computer Hardware Technology 11, 22, Machine Tool Technology 16ab, 46, 101abcd, Welding 15ab*, Art 141abcd*, 144abcd*, Computer Information Systems 13 (*one semester)
Total Units: 31-32

4. Electronics and Computer Hardware Technology Major (three options)

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

Computer Technology Option:

Current Status/Proposed Change

Electronics and Computer Hardware Technology 11, 22, 110, 130, ~~131~~, 140ab*, 142ab*, 144ab*
two courses from: Electronics and Computer Hardware Technology 95abcd* (~~one semester~~), 191ab*, ~~194~~, Computer Information Systems 13, 40 (*one semester)
Total Units: ~~32-34~~ 29-31

Recommendation:

Electronics and Computer Hardware Technology 11, 22, 110, 130, 140ab*,
142ab*, 144ab*;
two courses from: Electronics and Computer Hardware Technology 95abcd*,
191ab*, Computer Information Systems 13, 40 (*one semester)
Total Units: 29-31

Electronics Technology Option:

Current Status/Proposed Change

Electronics and Computer Hardware Technology 11, 22, 110, ~~112~~, 120, 122, 124,
130, ~~131~~, 140ab*, ~~190~~;

one course from: Electronics and Computer Hardware Technology 95abcd* (~~one
semester~~), 142ab*, 144ab*, ~~150, 152~~, 191ab*, 192, ~~193, 194~~ (*one semester)

Total Units: ~~37-39~~ 27-29

Recommendation:

Electronics and Computer Hardware Technology 11, 22, 110, 120, 122, 124, 130,
140ab*;

one course from: Electronics and Computer Hardware Technology 95abcd*,
142ab*, 144ab*, 191ab*, 192 (*one semester)

Total Units: 27-29

Computer Hardware CompTIA Technician Option:

Current Status/Proposed Change

Electronics and Computer Hardware Technology 11, 22, 140ab*, 142ab*, 144ab*,
146ab*, 148ab* (*one semester)

Total Units: 26

Recommendation:

Electronics and Computer Hardware 11, 22, 140ab*, 142ab*, 144ab*, 146ab*,
148ab* (*one semester)

Total Units: 26

5. Engineering Technology Major

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

Current Status/Proposed Change

Engineering Technician Option:

Engineering Technology 10 or 10A and 10B, 12 or 12A and 12B, 14 or 14A and
14B, 16 or 16A and 16B, Machine Tool Technology 101abcd, Technical
Mathematics 1;

three courses from: Engineering Technology 18 or 18A and 18B, Machine Tool
Technology 16ab*, Computer Aided Design/Drafting ~~26abcd*~~, ~~27abcd*~~, 28abcd*,
Electronics and Computer Hardware Technology 22, Manufacturing Technology 70,
75 or 75A and 75B, Welding 15ab* (*one semester)

Total Units: 26-28

Recommendation:

Engineering Technology 10 or 10A and 10B, 12 or 12A and 12B, 14 or 14A and 14B, 16 or 16A and 16B, Machine Tool Technology 101abcd, Technical Mathematics 1;

three courses from: Engineering Technology 18 or 18A and 18B, Machine Tool Technology 16ab*, Computer Aided Design/Drafting 28abcd*, Electronics and Computer Hardware Technology 22, Manufacturing Technology 70, 75 or 75A and 75B, Welding 15ab* (*one semester)

Total Units: 26-28

6. Fashion Major (two options)

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

Fashion Design and Production Option:

Current Status/Proposed Change

Fashion 1, 2, 3, 4ab*, 10ab*, 14, 15ab*, 17ab*, 20, 26A, 26B, 29ab*, 35, 41, Art 10ab*, (*one semester)

Total Units: ~~31~~ 32

Recommendation:

Fashion 1, 2, 4ab*, 10ab*, 14, 15ab*, 17ab*, 20, 26A, 26B, 29ab*, 35, 41, Art 10ab*, (*one semester)

Total Units: 32

Fashion Merchandising Option:

Current Status/Proposed Change

Fashion 1, 2, 3, 4ab*, 10ab*, 15ab*, 20, 27, 28, 35, 41, 42abc*; Business 22 (*one semester)

Total Units: ~~28~~ 29

Recommendation:

Fashion 1, 2, 4ab*, 10ab*, 15ab*, 20, 27, 28, 35, 41, 42abc*; Business 22 (*one semester)

Total Units: 29

7. Manufacturing Technology Major

Current Status/Proposed Change

Machine Tool Technology 101abcd*; Machine Tool Technology 10A or Computer Aided Design/Drafting 10abcd*; Machine Tool Technology 2 or Computer Aided Design/Drafting 5; Technical Mathematics 1 or Machine Tool Technology 40; Electronics and Computer Hardware Technology 11; Welding 15ab*;

a minimum of 18 units from: Computer Aided Design/Drafting ~~26abcd*~~, ~~27abcd*~~, 28abcd*, 31abcd*, 32abcd*, 33abcd*, ~~34abcd*~~, 37abcd*, 45, 47, 49; Electronics

and Computer Hardware Technology 22, 110, ~~112~~, 120, 122, 124, 130, ~~131~~, 140ab*, 142ab*, 144ab*, ~~150, 152, 190~~, 191ab*, 192, ~~193, 194~~; Engineering Technology 10 or 10A and 10B, 12 or 12A and 12B, 14 or 14A and 14B, 16 or 16A and 16B, 18 or 18A and 18B; ~~Environmental Technology 100, 110, 120, 130, 140, 150, 160, 200, 210~~; Machine Tool Technology 10B, 10J, 10K, 11abcd, 103abcd*, 105abcd*, 107abcd*; Manufacturing Technology ~~1~~, 2, 3, 70, 75 or 75A and 75B; ~~Quality Assurance 1, 8, 9~~; Welding 1, 2abc, ~~19ab~~, 21, 23abc, 40abcd, 45ab (*one semester);

Cooperative Work Experience Education courses: a maximum of 4 units from either Computer Aided Design/Drafting 95abcd, Electronics and Computer Hardware Technology 95abcd, Machine Tool Technology 95abcd, ~~Quality Assurance 95abcd~~, Welding 95abcd

Total Units: 37

Recommendation:

Machine Tool Technology 101abcd*; Machine Tool Technology 10A or Computer Aided Design/Drafting 10abcd*; Machine Tool Technology 2 or Computer Aided Design/Drafting 5; Technical Mathematics 1 or Machine Tool Technology 40; Electronics and Computer Hardware Technology 11; Welding 15ab*;

a minimum of 18 units from: Computer Aided Design/Drafting 28abcd*, 31abcd*, 32abcd*, 33abcd*, 37abcd*, 45, 47, 49; Electronics and Computer Hardware Technology 22, 110, 120, 122, 124, 130, 140ab*, 142ab*, 144ab*, 191ab*, 192; Engineering Technology 10 or 10A and 10B, 12 or 12A and 12B, 14 or 14A and 14B, 16 or 16A and 16B, 18 or 18A and 18B; Machine Tool Technology 10B, 10J, 10K, 11abcd, 103abcd*, 105abcd*, 107abcd*; Manufacturing Technology 2, 70, 75 or 75A and 75B; Welding 1, 2abc, 21, 23abc, 40abcd, 45ab (*one semester)

Cooperative Work Experience Education courses: a maximum of 4 units from either Computer Aided Design/Drafting 95abcd, Electronics and Computer Hardware Technology 95abcd, Machine Tool Technology 95abcd, Welding 95abcd

Total Units: 37

NEW CERTIFICATE OF ACCOMPLISHMENT

INDUSTRY AND TECHNOLOGY

1. Electronics and Computer Hardware Technology : CompTIA Computer Hardware Technician

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

Electronics and Computer Hardware Technology 144ab*, 146ab*, 148ab* (*one semester)

Total Units: 12

2. Electronics and Computer Hardware Technology: Robotics
At least 50% of the courses required for the Certificate of Accomplishment must be completed at El Camino College.
Electronics and Computer Hardware Technology 11, 22, 130, 191ab*, 192 (*one semester)
Total Units: 16

CHANGE IN CERTIFICATE OF ACCOMPLISHMENT

INDUSTRY AND TECHNOLOGY

Course requirements in the following certificates have been revised to remove inactivated courses and update course number changes.

1. Electronics and Computer Hardware Technology: Computer Hardware Technician Certificate
At least 50% of the courses required for the Certificate of Accomplishment must be completed at El Camino College.
Current Status/Proposed Change
Electronics and Computer Hardware Technology 11, ~~130~~, 140ab*, 142ab*, 144ab*
(*one semester)
Total Units: 15

Recommendation:

Electronics and Computer Hardware Technology 11, 140ab*, 142ab*, 144ab* (*one semester)
Total Units: 15

2. Electronics and Computer Hardware Technology: Electronics Technician Certificate
At least 50% of the courses required for the Certificate of Accomplishment must be completed at El Camino College.
Current Status/Proposed Change
Electronics and Computer Hardware Technology 11, 22, 110, 120, 140ab* (*one semester)
Total Units: 16

Recommendation:

Electronics and Computer Hardware Technology 11, 22, 110, 120, 140ab* (*one semester)
Total Units: 16

NEW CERTIFICATE OF ACHIEVEMENT

INDUSTRY AND TECHNOLOGY

1. Administration of Justice: Forensics

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

Administration of Justice 111, 132, 134, 135; Photography 51; Art 10ab (one semester)

Total Units: 17

2. Electronics and Computer Hardware Technology: Comprehensive Computer CompTIA Technician

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

Electronics and Computer Hardware Technology 11, 22, 140ab*, 142ab*, 144ab*, 146ab*, 148ab* (*one semester)

Total Units: 26

CHANGE IN CERTIFICATE OF ACHIEVEMENT

INDUSTRY AND TECHNOLOGY

Course requirements in the following certificates have been revised to remove inactivated courses and update course number changes.

1. Administration of Justice Certificate

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

Current Status/Proposed Change

Administration of Justice 100, 103, 115, 130, 131, 135, 170;

a minimum of six units from: Administration of Justice 70, 95/96abcd (2-4 units), 106, 107, 109, 111, ~~125~~, 126, 132, 133, 134, ~~136~~, 150, 155

Total Units: 27-32

Recommendation:

Administration of Justice 100, 103, 115, 130, 131, 135, 170;

a minimum of six units from: Administration of Justice 70, 95/96abcd (2-4 units), 106, 107, 109, 111, 126, 132, 133, 134, 150, 155

Total Units: 27-32

2. Air Conditioning and Refrigeration: Air Conditioning and Refrigeration Electric Controls Certificate

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

Current Status/Proposed Change

Air Conditioning and Refrigeration 5, 6, 30, ~~31~~, 32, 34

Total Units: ~~15~~ 13

Recommendation:

Air Conditioning and Refrigeration 5, 6, 30, 32, 34

Total Units: 13

3. Air Conditioning and Refrigeration: Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Certificate

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

Current Status/Proposed Change

Air Conditioning and Refrigeration 5, 6, 20, 21, 22, 23, 25, 27, 30, ~~31~~, 32, 34,

Technical Mathematics 1

Total Units: ~~38~~ 39

Recommendation:

Air Conditioning and Refrigeration 5, 6, 20, 21, 22, 23, 25, 27, 30, 32, 34, Technical Mathematics 1

Total Units: 39

4. Computer Aided Design/Drafting Certificate

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

Current Status/Proposed Change

Computer Aided Design/Drafting 5, 10abcd*, 28abcd*, 31abcd*, 32abcd*, 33abcd*, ~~34abcd*~~, 37abcd*, 45, 47, 49, Technical Mathematics 1;

one course from: Electronics and Computer Hardware Technology 11, 22, Machine Tool Technology 16ab, 46, 101abcd, Welding 15ab*, Art 141abcd*, 144abcd*, Computer Information Systems 13, (*one semester)

Total Units: ~~33-34~~ 31-32

Recommendation:

Computer Aided Design/Drafting 5, 10abcd*, 28abcd*, 31abcd*, 32abcd*, 33abcd*, 37abcd*, 45, 47, 49, Technical Mathematics 1;

one course from: Electronics and Computer Hardware Technology 11, 22, Machine Tool Technology 16ab, 46, 101abcd, Welding 15ab*, Art 141abcd*, 144abcd*, Computer Information Systems 13, (*one semester)

Total Units: 31-32

5. Electronics and Computer Hardware Technology: Computer Hardware Electronics Technician Certificate

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

Current Status/Proposed Change

Electronics and Computer Hardware Technology 11, 22, 110, 130, 140ab*, 142ab*, 144ab*;

two courses from: Electronics and Computer Hardware Technology 95abcd* (~~one semester~~), ~~131~~, 191ab*, ~~194~~, Computer Information Systems 13, 40 (*one semester)

Total Units: 29-31

Recommendation

Electronics and Computer Hardware Technology 11, 22, 110, 130, 140ab*, 142ab*, 144ab*;

two courses from: Electronics and Computer Hardware Technology 95abcd*, 191ab*, Computer Information Systems 13, 40 (*one semester)

Total Units: 29-31

6. Electronics and Computer Hardware Technology: Electronics Engineering Technician Certificate

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

Current Status/Proposed Change

Electronics and Computer Hardware Technology 11, 22, 110, 120, 124, 130, 140ab*, ~~190~~;

two courses from: Electronics and Computer Hardware Technology 95abcd*, 142ab*, 144ab*, ~~150, 152, 190~~, 191ab*, 192, ~~193, 194~~ (*one semester)

Total Units: ~~30-34~~ 27-30

Recommendation:

Electronics and Computer Hardware Technology 11, 22, 110, 120, 124, 130, 140ab*;

two courses from: Electronics and Computer Hardware Technology 95abcd*, 144ab*, 191ab*, 192 (*one semester)

Total Units: 27-30

7. Electronics and Computer Hardware Technology: Industrial Computer Control Technician Certificate

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

Current Status/Proposed Change

Electronics and Computer Hardware Technology 11, 22, 110, 120, 124, 130, 140ab*, 191ab*, 192, Machine Tool Technology 10A;

one course from: Electronics and Computer Hardware Technology 95abcd*, ~~131~~,
142ab* (*one semester), ~~190~~

Total Units: 34-36

Recommendation:

Electronics and Computer Hardware Technology 11, 22, 110, 120, 124, 130,
140ab*, 191ab*, 192, Machine Tool Technology 10A;

one course from: Electronics and Computer Hardware Technology 95abcd*, 142ab*
(*one semester)

Total Units: 34-36

8. Engineering Technology: Engineering Technician Certificate

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

Current Status/Proposed Change

Engineering Technology 10 or 10A and 10B, 12 or 12A and 12B, 14 or 14A and
14B, 16 or 16A and 16B, Machine Tool Technology 101abcd, Technical
Mathematics 1;

three courses from: Engineering Technology 18 or 18A and 18B, Machine Tool
Technology 16ab*, Computer Aided Design/Drafting ~~26abcd*~~, ~~27abcd*~~, 28abcd*,
Electronics and Computer Hardware Technology 22, Manufacturing Technology 70,
75 or 75A and 75B, Welding 15ab* (*one semester)

Total Units: ~~25~~26-28

Recommendation:

Engineering Technology 10 or 10A and 10B, 12 or 12A and 12B, 14 or 14A and
14B, 16 or 16A and 16B, Machine Tool Technology 101abcd, Technical
Mathematics 1;

three courses from: Engineering Technology 18 or 18A and 18B, Machine Tool
Technology 16ab*, Computer Aided Design/Drafting 28abcd*, Electronics and
Computer Hardware Technology 22, Manufacturing Technology 70, 75 or 75A and
75B, Welding 15ab* (*one semester)

Total Units: 26-28

9. Fashion: Fashion Design and Production Certificate

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

Current Status/Proposed Change

Fashion 1, 2, ~~3~~, 4ab*, 10ab*, 14, 15ab*, 17ab*, 20, 26A, 26B, 29ab*, 35, 41,
95abcd (2-4 units);

three courses from: Fashion 11ab*, 16ab*, 24abc*, 31, 36, 37; Art 10ab*, 37ab*
(*one semester)

Total Units: ~~38-41~~ 39-42

Recommendation:

Fashion 1, 2, 4ab*, 10ab*, 14, 15ab*, 17ab*, 20, 26A, 26B, 29ab*, 35, 41, 95abcd (2-4 units);

three courses from: Fashion 11ab*, 16ab*, 24abc*, 31, 36, 37; Art 10ab*, 37ab* (*one semester)

Total Units: 39-42

10. Fashion: Fashion Merchandising Certificate

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

Current Status/Proposed Change

Fashion 1, 2, 3, 4ab*, 10ab*, 15ab*, 20, 27, 28, 35, 41, 42abc*; Fashion 95abcd (2-4 units); Business 15, 22 (*one semester)

two courses from: Business 12, 13, 14, 21, 27

Total Units: ~~40-42~~ 39-42

Recommendation

Fashion 1, 2, 4ab*, 10ab*, 15ab*, 20, 27, 28, 35, 41, 42abc*; Fashion 95abcd (2-4 units); Business 15, 22;

two courses from: Business 12, 13, 14, 21, 27 (*one semester)

Total Units: 39-42

11. Fashion: Fashion Stylist Certificate

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

Current Status/Proposed Change

Fashion 10ab*, 23, 31, 35, 41, 42abc*, 95abcd (2 units) (*one semester)

Total Units: 18

Recommendation:

Fashion 10ab*, 23, 31, 35, 41, 42abc*, 95abcd (2 units) (*one semester)

Total Units: 18

12. Fire and Emergency Technology: Fire Academy Certificate

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

Current Status/Proposed Change

Fire and Emergency Technology 1, 140, 141; Fire and Emergency Technology 15 or 115A and 115B; ~~Physical Education 8~~;

three units from: Fire and Emergency Technology 2, 5, 6, 7, 8, 9, 10, 11, 14, 19, 20

Total Units: ~~25.5~~ 23

Other Certificate Requirement: Completion of CPAT or FPAT (Physical Agility Test)

Recommendation:

Fire and Emergency Technology 1, 140, 141; Fire and Emergency Technology 15 or 115A and 115B;

three units from: Fire and Emergency Technology 2, 5, 6, 7, 8, 9, 10, 11, 14, 19, 20

Total Units: 23

Other Certificate Requirement: Completion of CPAT or FPAT (Physical Agility Test)

13. Manufacturing Technology Certificate

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

Current Status/Proposed Change

Machine Tool Technology 101abcd*; Machine Tool Technology 10A or Computer Aided Design/Drafting 10abcd*; Machine Tool Technology 2 or Computer Aided Design/Drafting 5; Technical Mathematics 1 or Machine Tool Technology 40;

Electronics and Computer Hardware Technology 11; Welding 15ab*;

a minimum of 18 units from: Computer Aided Design/Drafting ~~26abcd*~~, ~~27abcd*~~, 28abcd*, 31abcd*, 32abcd*, 33abcd*, ~~34abcd*~~, 37abcd*, 45, 47, 49; Electronics

and Computer Hardware Technology 22, 110, ~~112~~, 120, 122, 124, 130, ~~131~~, 140ab*, 142ab*, 144ab*, ~~150~~, ~~152~~, ~~190~~, 191ab*, 192, ~~193~~, ~~194~~; Engineering Technology 10

or 10A and 10B, 12 or 12A and 12B, 14 or 14A and 14B, 16 or 16A and 16B, 18 or 18A and 18B; ~~Environmental Technology 100, 110, 120, 130, 140, 150, 160, 200,~~

~~240~~; Machine Tool Technology 10B, 10J, 10K, 11abcd, 103abcd*, 105abcd*, 107abcd*;

Manufacturing Technology ~~1, 2, 3, 70, 75~~ or 75A and 75B; ~~Quality Assurance 1, 8, 9~~;

Welding 1, 2abc, ~~19ab~~, 21, 23abc, 40abcd, 45ab (*one semester)

Cooperative Work Experience Education courses: a maximum of 4 units from either Computer Aided Design/Drafting 95abcd, Electronics and Computer Hardware

Technology 95abcd, Machine Tool Technology 95abcd, ~~Quality Assurance 95abcd~~,

Welding 95abcd

Total Units: 37

Recommendation:

Machine Tool Technology 101abcd*; Machine Tool Technology 10A or Computer Aided Design/Drafting 10abcd*; Machine Tool Technology 2 or Computer Aided Design/Drafting 5; Technical Mathematics 1 or Machine Tool Technology 40;

Electronics and Computer Hardware Technology 11; Welding 15ab*;

a minimum of 18 units from: Computer Aided Design/Drafting 28abcd*, 31abcd*, 32abcd*, 33abcd*, 37abcd*, 45, 47, 49; Electronics and Computer Hardware

Technology 22, 110, 120, 122, 124, 130, 140ab*, 142ab*, 144ab*, 191ab*, 192;

Engineering Technology 10 or 10A and 10B, 12 or 12A and 12B, 14 or 14A and

14B, 16 or 16A and 16B, 18 or 18A and 18B; Machine Tool Technology 10B, 10J,

10K, 11abcd, 103abcd*, 105abcd*, 107abcd*; Manufacturing Technology 2, 70, 75 or 75A and 75B; Welding 1, 2abc, 21, 23abc, 40abcd, 45ab (*one semester)
Cooperative Work Experience Education courses: a maximum of 4 units from either
Computer Aided Design/Drafting 95abcd, Electronics and Computer Hardware
Technology 95abcd, Machine Tool Technology 95abcd, Welding 95abcd
Total Units: 37

INACTIVATE CERTIFICATE OF ACHIEVEMENT

INDUSTRY AND TECHNOLOGY

1. Electronics and Computer Hardware Technology: Communications Equipment Technician

Note: Proposed curriculum changes will be effective Fall 2011 with the exception of courses required or restricted electives for the major/certificate. All major/certificate revisions were board approved May 17, 2010 in order to be implemented with the 2010-2011 El Camino College requirements.