

**EL CAMINO COLLEGE**  
**MINUTES OF THE COLLEGE CURRICULUM COMMITTEE**  
**October 13, 2015**

**CALL TO ORDER**

Meeting called to order at 2:35 p.m. by Chair Carr.

**Members:**

*Present:* S. Bartiromo, S. Bosfield, W. Brownlee, T. Bui, A. Carr, A. Cornelio, E. French-Preston, A. Hockman, L. Houske, K. Iino, V. Nemie, D. Pahl, J. Shankweiler, A. Sharp

*Absent:* S. Rodriguez

**Ex-Officio Members:**

*Present:* Q. Chapman, P. McDermott, A. Osanyinpeju, L. Suekawa, K. Whitney, L. Young

*Absent:* M. Lipe

**Guests:** K. Daniel-DiGregorio, M. Fields, F. Hatten, G. Miranda, J. Soden, P. Sorunke

**APPROVAL OF MINUTES**

The committee approved the minutes of the College Curriculum Committee of September 22, 2015.

**VICE PRESIDENT'S REPORT**

Vice President Academic Affairs – Dr. Shankweiler – No Report

**CURRICULUM REVIEW**

**A. Full Program Review**

The committee reviewed the following program proposals, which are ready for final action:

1. Business Administration AS-T Degree
2. Construction Technology Option A.S. Degree
3. Construction Technology Certificate of Achievement
4. Engineering Technician Option A.S. Degree
5. Engineering Technician Certificate of Achievement
6. Engineering Technology Option A.S. Degree
7. Engineering Technology Certificate of Achievement
8. English as a Second Language Certificate of Accomplishment
9. French A.A Degree
10. Japanese A.A. Degree
11. Spanish A.A. Degree

## **B. Full Course Review**

The committee reviewed the following courses, which are ready for final action:

1. Automotive Collision Repair/Painting 2C (ACRP 2C)
2. Administration of Justice 133 (AJ 133)
3. English 12 (ENGL 12)
4. English 28 (ENGL 28)
5. Human Development 101 (formerly HDEV 8)
6. Human Development 105 (formerly HDEV 5)
7. Human Development 107 (formerly HDEV 20)

## **STANDARD REVIEW/CONSENT AGENDA PROPOSALS**

The committee reviewed the following courses, which are ready for final action:

1. Anatomy 32 (ANAT 32)
2. Anthropology 4 (ANTH 4)
3. Anthropology 6 (ANTH 6)
4. Anthropology 9 (ANTH 9)
5. Anthropology 11 (ANTH 11)
6. Anthropology 12 (ANTH 12)
7. Biology 10 (BIOL 10)
8. Biology 15 (BIOL 15)
9. Communication Studies 100 (formerly COMS 1)
10. Communication Studies 120 (formerly COMS 4)
11. Communication Studies 130 (formerly COMS 12)
12. Communication Studies 140 (formerly COMS 3)
13. Communication Studies 250 (formerly COMS 8)
14. Communication Studies 260 (formerly COMS 14)
15. Communication Studies 265 (formerly COMS 5)
16. Communication Studies 270 (formerly COMS 11)
17. Communication Studies 292abcd (formerly COMS 22abcd)
18. Economics 5 (ECON 5)
19. History 162 (HIST 162)
20. History 163 (HIST 163)
21. History 176 (HIST 176)
22. Human Development 110 (formerly HDEV 10)
23. Political Science 3 (POLI 3)
24. Political Science 6 (POLI 6)

The committee reviewed the following course inactivations, which and are ready for final action:

1. Computer Science 50 (CSCI 50)
2. English 50RWA (ENGL 50RWA)
3. Human Development 12 (HDEV 12)
4. Mathematics 50 (MATH 50)
5. Spanish 50 (SPAN 50)

## CURRICULUM DISCUSSION

### A. Full Program Review

#### Business Division

It was moved by A. Hockman, seconded by D. Pahl, that the committee approve program revision proposal for Business Administration AS-T Degree. Motion carried.

#### Humanities Division

It was moved by A. Hockman, seconded by E. French-Preston, that the committee approve program revision proposals for French A.A. Degree, Japanese A.A. Degree, Spanish A.A. Degree, and new English as a Second Language Certificate of Accomplishment. Motion carried.

#### Industry and Technology Division

It was moved by V. Nemie, seconded by L. Houske, that the committee approve program revision proposals for Engineering Technology A.S. Degree and Certificate of Achievement; Construction Technology A.S. Degree and Certificate of Achievement; Engineering Technician A.S. Degree and Certificate of Achievement. Motion carried.

### B. Full Course Review

#### Behavioral and Social Sciences Division

It was moved by E. French-Preston, seconded by S. Bartiromo, that the committee approve the course review proposals and conditions of enrollment changes for Human Development 101, 105, and 107. Motion carried.

#### Humanities Division

It was moved by E. French-Preston, seconded by V. Nemie, that the committee approve the course review proposals and conditions of enrollment changes for English 12 and English 28. Motion carried.

#### Industry and Technology Division

The committee made the following recommendation to the course outline of records (CORs):

1. Automotive Collision Repair Painting 2C – Automotive Refinishing Applications

Edit *Outline of Subject Matter* in the Course Checklist: Add main headings for each major topic. Action: P. Fairchild

It was moved by W. Brownlee, seconded by A. Cornelio, that the committee approve the course proposal. Motion carried.

2. Administration of Justice 133 – Fingerprint Classification and Investigation

Edit *Evaluation Methods and Assignments* in the Course Checklist: Remove the statement “students will” listed in the college-level critical thinking assignments section of the COR. Action: M. Fields

It was moved by K. Iino, seconded by W. Brownlee, that the committee approve the course proposal and conditions of enrollment changes for Administration of Justice 133. Motion carried.

**C. Standard Review/Consent Agenda Proposals**

It was moved by A. Hockman, seconded by W. Brownlee, that the committee approve the twenty-nine standard review/consent agenda proposals including changes to the conditions of enrollment for Biology 15. Motion carried.

**GENERAL EDUCATION AND ARTICULATION TIMELINES**

Articulation Officer L. Suekawa gave a presentation on general education and articulation timelines. The committee reviewed the C-ID results for courses submitted to the Chancellor’s Office for C-ID approval. The committee was advised to review courses with “conditional” and “not approved” status and send their rationale to L. Suekawa. A copy of the results will be emailed to the divisions next month.

**CHAIR’S REPORT**

College Curriculum Committee Chair – A. Carr

It was recommended the committee inform their DCC members that Chair Carr is available to answer questions pertaining to curriculum.

**CURRICULUM ADVISOR REPORT**

Curriculum Advisor – Q. Chapman

There are numerous proposals that need to be reviewed by the Standard Technical Review Committee prior to the next college curriculum meeting. These proposals originated from the following divisions: Health Sciences and Athletics, Business, Fine Arts, and Mathematical Sciences.

**ANNOUNCEMENTS – No Report**

**ADJOURNMENT**

Chair Carr called a motion to adjourn the meeting. K. Iino moved, T. Bui seconded, and the motion carried. The meeting adjourned at 4:25 p.m.

**EL CAMINO COLLEGE  
COLLEGE CURRICULUM COMMITTEE  
October 13, 2015  
Approved Curriculum Changes for 2016-2017**

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**BEHAVIORAL AND SOCIAL SCIENCES**

**COURSE REVIEW; DISTANCE EDUCATION REVIEW**

1. Anthropology 4 – Language and Culture
2. Anthropology 6 – Native Peoples of North America
3. Anthropology 9 – Women, Culture, and Society
4. Anthropology 11 – Anthropology of Religion, Magic and Witchcraft
5. Economics 5 – Fundamentals of Economics
6. History 162 – History of Early Britain
7. History 163 – History of Modern Britain
8. History 176 – History of Asian Civilizations from 1600 to the Present
9. Political Science 3 – Introduction to Principles and Methods of Political Science
10. Political Science 6 – Civil Rights and Liberties in the United States

**CHANGE IN COURSE NUMBER**

*Current Status/Proposed Changes*

1. Human Development ~~40~~ 110 – Strategies for Creating Success in College and in Life

**COURSE REVIEW; DISTANCE EDUCATION REVIEW, CHANGES IN COURSE TITLE, CATALOG DESCRIPTION**

*Current Status/Proposed Changes*

1. Anthropology 12 – Ancient Civilizations of the Old World

This course traces the emergence of ~~early states and ancient empires around the globe~~ earliest states of the Middle East, Asia, and Europe. The cultural achievements linked to state development are traced through a survey of evidence ~~from both recovered~~ from the archaeological and historical records. Students record, including the earliest written texts. Social and cultural antecedents of the earliest states in the Middle East will be explored. Students will be introduced to anthropological theories that seek to model and explain ~~the appearance of~~ the features and institutions of state-level societies and empires.

*Recommendation*

Anthropology 12 – Ancient Civilizations of the Old World

This course traces the emergence of earliest states of the Middle East, Asia, and Europe. The cultural achievements linked to state development are traced through a survey of evidence recovered from the archaeological record, including the earliest written texts. Social and cultural antecedents of the earliest states in the Middle East will be explored. Students will be introduced to anthropological theories that seek to model and explain the features and institutions of state-level societies.

**COURSE REVIEW; DISTANCE EDUCATION REVIEW, CHANGES IN COURSE NUMBER, CONDITIONS OF ENROLLMENT (Pre/Corequisite, Recommended Preparation, or Enrollment Limitation)**

*Current Status/Proposed Changes*

1. Human Development ~~20~~ 107 – Navigating the Transfer Process  
Recommended Preparation: English 84 or English as a Second Language ~~52C~~ 52B  
and  
English A or English as a Second Language 53C

*Recommendation*

Human Development 107 – Navigating the Transfer Process  
Recommended Preparation: English 84 or English as a Second Language 52B  
and  
English A or English as a Second Language 53C

**COURSE REVIEW; DISTANCE EDUCATION REVIEW, CHANGES IN COURSE NUMBER, COURSE DISCIPLINE, CONDITIONS OF ENROLLMENT (Pre/Corequisite, Recommended Preparation, or Enrollment Limitation)**

*Current Status/Proposed Changes*

1. Human Development & 101 – Orientation to College and Educational Planning  
Course Discipline: Education ~~and~~ or Psychology or Counseling

Recommended Preparation: English 84 or English as a Second Language ~~52C~~ 52B  
and  
English A or English as a Second Language 53C

*Recommendation*

Human Development 101 – Orientation to College and Educational Planning  
Course Discipline: Education or Psychology or Counseling

Recommended Preparation: English 84 or English as a Second Language 52B  
and  
English A or English as a Second Language 53C

*Current Status/Proposed Changes*

- Human Development 5 105 – Career and Life Planning  
Course Discipline: Education ~~and~~ or Psychology or Counseling

Recommended Preparation: English 84 or English as a Second Language ~~52C~~ 52B  
and  
English A or English as a Second Language 53C

*Recommendation*

Human Development 105 – Career and Life Planning  
Course Discipline: Education or Psychology or Counseling

Recommended Preparation: English 84 or English as a Second Language 52B  
and  
English A or English as a Second Language 53C

**INACTIVATE COURSE**

- Human Development 12 – Strategies for Success in the Workplace

**BUSINESS**

**CHANGE IN MAJOR; COURSE REQUIREMENTS**

- Business Administration AS-T Degree  
*Current Status/Proposed Changes*

**Major Requirements**

Required Core: 17-18 units

**Units**

BUS 1A	Financial Accounting	4
BUS 1B	Managerial Accounting	4
ECON 1	Principles of Economics: Macroeconomics	3
ECON 2	Principles of Economics: Microeconomics Theory	3
LAW 4	Legal Environment of Business	4
or		
LAW 5	Business Law	3

List A (select one): 4-5 units

MATH 140	Finite Mathematics for Business and Social Sciences	4
MATH 150	Elementary Statistics with Probability	4
MATH 160	Calculus I for the Biological, Management and Social Sciences	4
<u>or</u>		
<u>MATH 165</u>	<u>Calculus for Business and Social Sciences</u>	<u>5</u>
<u>or</u>		
MATH 190	Single Variable Calculus and Analytic Geometry I	5

List B (select two): 6-7 units

CIS 13	Computer Information Systems	3
BUS 25	Introduction to Business	3
<u>or</u>		
BUS 28	Written Business Communications	3
<u>or</u>		

Any 4 unit Math course from List A not already completed

**Total Units: 27-30**

## FINE ARTS

### CHANGES IN COURSE NUMBER

1. Communication Studies ~~1~~ 100 – Public Speaking
2. Communication Studies ~~4~~ 120 – Argumentation and Debate
3. Communication Studies ~~12~~ 130 – Interpersonal Communication
4. Communication Studies ~~3~~ 140 – Small Group Communication
5. Communication Studies ~~8~~ 250 – Oral Interpretation of Literature
6. Communication Studies ~~14~~ 260 – Introduction to Intercultural Communication
7. Communication Studies ~~5~~ 265 – Mass Communication
8. Communication Studies ~~11~~ 270 – Organizational Communication

### COURSE REVIEW; CHANGE IN COURSE NUMBER

*Current Status/Proposed Changes*

1. Communication Studies ~~22abcd~~ 292abcd – Forensics - Individual Events



## HUMANITIES

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

1. English 12 – Introduction to Fiction

*Current Status/Proposed Changes*

~~Recommended Preparation~~ Prerequisite: eligibility for English 1A

*Recommendation*

Prerequisite: eligibility for English 1A

### **COURSE REVIEW; DISTANCE EDUCATION REVIEW, CHANGES IN CONDITIONS OF ENROLLMENT (Pre/Corequisite, Recommended Preparation, or Enrollment Limitation)**

1. English 28 – Images of Women in Literature

*Current Status/Proposed Changes*

~~Recommended Preparation~~ Prerequisite: eligibility for English 1A

*Recommendation*

Prerequisite: eligibility for English 1A

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

1. French A.A. Degree

*Current Status/Proposed Changes*

#### **Major Requirements**

FREN 4 Intermediate French II

**Units**

4

4-11 units from:

FREN 1 Elementary French I

4

FREN 2 Elementary French II

4

FREN 3 Intermediate French I

4

FREN 5 Advanced French I

3

FREN 6 Advanced French II

3

FREN 21~~ab~~ Beginning Conversational French

2

FREN 22~~ab~~ Intermediate Conversational French

2

a minimum of 3 units from:

ART 102B	History of Western Art - Proto-Renaissance to 19th Century	3
ART 102C	History of Western Art - 19th Century to Contemporary Times	3
<del>BUS 90</del>	<del>International Aspects of Business</del>	<del>3</del>
<del>BUS 91</del>	<del>International Marketing</del>	<del>3</del>
ENGL 15A	Survey of British Literature I	3
ENGL 15B	Survey of British Literature II	3
ENGL 35	World Literature: 3500 BCE to 1650 CE	3
ENGL 36	World Literature: 1650 CE to Present	3
<del>FREN 24</del>	<del>Introduction to French and Francophone Cultures</del>	<del>3</del>
HIST 140	History of Early Civilizations	3
HIST 141	History of Modern Civilizations	3
<b>Total Units: 18</b>		

2. Japanese A.A. Degree

*Current Status/Proposed Changes*

<b>Major Requirements</b>		<b>Units</b>
JAPA 4	Intermediate Japanese II	4

4-11 units from:

JAPA 1	Elementary Japanese I	4
JAPA 2	Elementary Japanese II	4
JAPA 3	Intermediate Japanese I	4
JAPA 21	Beginning Conversational Japanese	2
JAPA 22	Intermediate Conversational Japanese	2

a minimum of 3 units from:

ANTH 2	Introduction to Cultural Anthropology	3
ART 205B	History of Asian Art - China, Korea, and Japan	3
<del>BUS 90</del>	<del>International Aspects of Business</del>	<del>3</del>
<del>BUS 91</del>	<del>International Marketing</del>	<del>3</del>
ENGL 35	World Literature: 3500 BCE to 1650 CE	3
ENGL 36	World Literature: 1650 CE to Present	3
HIST 175	History of Asian Civilizations to 1600	3
HIST 176	History of Asian Civilizations from 1600 to the Present	3
JAPA 25	Cultural Aspects of the Japanese Language	3
PHIL <del>7</del> 107	Philosophy of Religion	3
POLI 2	Introduction to Comparative Politics	3
POLI 10	Introduction to International Relations	3
<b>Total Units: 18</b>		

3. Spanish A.A. Degree  
*Current Status/Proposed Changes*

<b>Major Requirements</b>		<b>Units</b>
SPAN 4	Intermediate Spanish II	4
4-11 units from:		
SPAN 1	Elementary Spanish I	4
SPAN 2	Elementary Spanish II	4
SPAN 3	Intermediate Spanish I	4
SPAN 5	Advanced Spanish I	3
SPAN 6	Advanced Spanish II	3
<del>SPAN 21ab</del>	<del>Beginning Conversational Spanish</del>	<del>2</del>
<del>SPAN 22ab</del>	<del>Intermediate Conversational Spanish</del>	<del>2</del>
SPAN 52A	Spanish for Native Speakers <u>I</u>	<del>3</del> <u>4</u>
SPAN 52B	Spanish for Native Speakers <u>II</u>	<del>3</del> <u>4</u>
a minimum of 3 units from:		
ANTH 7	Native Peoples of South America	3
ART 207	Art History of Mexico and Central and South America	3
<del>BUS 90</del>	<del>International Aspects of Business</del>	<del>3</del>
<del>BUS 91</del>	<del>International Marketing</del>	<del>3</del>
ENGL 42	Chicano and Latino Literature	3
ENGL 48	Modern Literature of Latin America	3
HIST 112	History of the Chicano in the United States	3
HIST 154	A History of Mexico	3
<del>Spanish 24</del>	<del>Introduction to Spanish and Latin American Language and Cultures</del>	<del>3</del>
<b>Total Units: 18</b>		

**NEW CERTIFICATE**

- English as a Second Language Certificate of Accomplishment  
 The English as a Second Language program prepares students for college-level English courses and employment in English-speaking environments.  
 By completing the certificate requirements, the student will gain proficiency in reading, writing, speaking, and understanding American English. Competency will be assessed by the student successfully meeting all the outcomes in the courses required by the certificate.

<b>Certificate Requirements</b>		<b>Units</b>
ESL 51C	Advanced Listening, Speaking, and Pronunciation	4
ESL 52C	Advanced Reading	4
ESL 53C	Advanced Essay Writing and Grammar	4
<b>Total Units: 12</b>		

## **INACTIVATE COURSES**

1. English 50RWA – Integrated Reading and Writing
2. Spanish 50 – Special Topics in Spanish

## **INDUSTRY AND TECHNOLOGY**

### **CTE TWO-YEAR COURSE REVIEW**

1. Automotive Collision Repair/Painting 2C – Automotive Refinishing Applications

### **CTE TWO-YEAR COURSE REVIEW; CHANGES IN CATALOG DESCRIPTION, CONDITIONS OF ENROLLMENT (Pre/Corequisite, Recommended Preparation, or Enrollment Limitation)**

1. Administration of Justice 133 – Fingerprint Classification and Investigation

*Current Status/Proposed Changes*

~~Recommended Preparation: eligibility for English 84~~

This course covers the basic principles of fingerprints, including lifting, classification, and identification. The history of fingerprint, Henry and Battley systems, and the legal aspects of and scientific basis for fingerprints are studied in relation to current practices and procedures.

*Recommendation*

This course covers the basic principles of fingerprints, including lifting, classification, and identification. The history and scientific basis for fingerprints are studied in relation to current practices and procedures.

## CHANGE IN MAJOR; COURSE REQUIREMENTS

1. Construction Technology Option A.S. Degree  
*Current Status/Proposed Changes*

<b>Major Requirements</b>		<b>Units</b>
Required Core: 18 units		
CTEC 100	Building Fundamentals	4
CTEC 110	Additions and Remodeling	4
CTEC 172	Residential Electrical Wiring	4
CTEC 180	Residential Plumbing	4
CTEC 200	General Cabinet Making	2
complete 16 units from:		
ARCH 179	Design or Build Studio	4
<del>CTEC 105</del>	<del>Residential Light Steel Framing</del>	<del>2</del>
CTEC 121	Concrete and Formwork	4
CTEC 122	Rough Framing	4
CTEC 131	Roof Framing	4
CTEC 132	Stair Framing	4
CTEC 141	Interior Subcrafts	4
CTEC 142	Exterior Subcrafts	4
CTEC 150	Contract Estimating	3
CTEC 160	Business and Legal Aspects of Contracting	3
CTEC 201	Upper Residential Cabinets	2
CTEC 202	Base Residential Cabinets	2
CTEC 203	Dedicated Use Cabinets	2
<b>Total Units: 34</b>		

Recommended Electives:

ARCH 150A - Architectural Drafting I

BUS 17 - Personal Finance

CIS 13 - Computer Information Systems

CTEC 95~~abcd~~ - Cooperative Work Experience Education

2. Engineering Technology Option A.S. Degree  
*Current Status/Proposed Changes*

<b>Major Requirements</b>		<b>Units</b>
Required Core: 26 units		
ETEC 10	Principles of Engineering Technology	3

or		
ETEC 10A	Principles of Engineering Technology I	1.5
and		
ETEC 10B	Principles of Engineering Technology II	1.5
ETEC 12	Introduction to Engineering Design	3
or		
ETEC 12A	Introduction to Engineering Design I	1.5
and		
ETEC 12B	Introduction to Engineering Design II	1.5
ETEC 14	Electronics for Engineering Technologists	3
or		
ETEC 14A	Electronics for Engineering Technologists I	1.5
and		
ETEC 14B	Electronics for Engineering Technologists II	1.5
ETEC 16	Computer Integrated Manufacturing	3
or		
ETEC 16A	Computer Integrated Manufacturing I	1.5
and		
ETEC 16B	Computer Integrated Manufacturing II	1.5
CHEM 1A	General Chemistry I	5
MATH 190	Single Variable Calculus and Analytic Geometry I	5
PHYS 2A	General Physics	4
two courses from: 3-7 units		
CIS 13	Introduction to Computers	3
ECHE 110	Introduction to Direct and Alternating Current Circuits	3
ENGR 1	Introduction to Engineering	2
ENGR 9	Engineering Mechanics - Statics	3
ETEC 18	Engineering Design and Development	3
or		
ETEC 18A	Engineering Design and Development I	1.5
and		
ETEC 18B	Engineering Design and Development II	1.5
MTT 101	Introduction to Conventional and CNC Machining	4
MTEC 70	Basic Robotics	2
<del>MTEC 75</del>	<del>Integrated Robotic and Automated Technologies</del>	<del>3</del>
or		
MTEC 75A	Integrated Robotic and Automated Technologies I	1.5
and		
MTEC 75B	Integrated Robotic and Automated Technologies II	1.5
<u>ETEC 15</u>	Aerospace Engineering	3
or		
<u>ETEC 15A</u>	<u>Aerospace Engineering I</u>	<u>1.5</u>

<u>and</u>		
<u>ETEC 15B</u>	<u>Aerospace Engineering II</u>	<u>1.5</u>
<b>Total Units 29-33</b>		

## CHANGE IN MAJOR; COURSE REQUIREMENTS, TOTAL UNITS

1. Engineering Technician Option A.S. Degree  
*Current Status/Proposed Changes*

<b>Major Requirements</b>		<b>Units</b>
Required Core: 16 units		
ETEC 10	Principles of Engineering Technology	3
or		
ETEC 10A	Principles of Engineering Technology I	1.5
and		
ETEC 10B	Principles of Engineering Technology II	1.5
ETEC 12	Introduction to Engineering Design	3
or		
ETEC 12A	Introduction to Engineering Design I	1.5
and		
ETEC 12B	Introduction to Engineering Design II	1.5
ETEC 14	Electronics for Engineering Technologists	3
or		
ETEC 14A	Electronics for Engineering Technologists I	1.5
and		
ETEC 14B	Electronics for Engineering Technologists II	1.5
ETEC 16	Computer Integrated Manufacturing	3
or		
ETEC 16A	Computer Integrated Manufacturing I	1.5
and		
ETEC 16B	Computer Integrated Manufacturing II	1.5
MTT 101	Introduction to Conventional and CNC Machining	4
three courses from: <del>8-9 units</del> <u>5-9 units</u>		
ETEC 18	Engineering Design and Development	3
or		
ETEC 18A	Engineering Design and Development I	1.5
and		
ETEC 18B	Engineering Design and Development II	1.5
MTT 16	General Metals	3
CADD 28	Parametric Three Dimensional (3D) Modeling and Assemblies	2

ECHT 22	Basic Electronic Fabrication	3
MTEC 70	Basic Robotics	2
<del>MTEC 75</del>	<del>Integrated Robotic and Automated Technologies</del>	<del>3</del>
or		
MTEC 75A	Integrated Robotic and Automated Technologies I	1.5
and		
MTEC 75B	Integrated Robotic and Automated Technologies II	1.5
WELD 15	Basic Welding for Allied Fields	3
<u>ETEC 15</u>	<u>Aerospace Engineering</u>	<u>3</u>
or		
<u>ETEC 15A</u>	<u>Aerospace Engineering I</u>	<u>1.5</u>
and		
<u>ETEC 15B</u>	<u>Aerospace Engineering II</u>	<u>1.5</u>
<b>Total Units <del>24-25</del> <u>21-25</u></b>		

## CHANGE IN CERTIFICATE; COURSE REQUIREMENTS

1. Construction Technology Certificate of Achievement  
*Current Status/Proposed Changes*

<b>Certificate Requirements</b>		<b>Units</b>
Required Core: 18 units		
CTEC 100	Building Fundamentals	4
CTEC 110	Additions and Remodeling	4
CTEC 172	Residential Electrical Wiring	4
CTEC 180	Residential Plumbing	4
CTEC 200	General Cabinet Making	2
complete 16 units from:		
ARCH 179	Design or Build Studio	4
<del>CTEC 105</del>	<del>Residential Light Steel Framing</del>	<del>2</del>
CTEC 121	Concrete and Formwork	4
CTEC 122	Rough Framing	4
CTEC 131	Roof Framing	4
CTEC 132	Stair Framing	4
CTEC 141	Interior Subcrafts	4
CTEC 142	Exterior Subcrafts	4
CTEC 150	Contract Estimating	3
CTEC 160	Business and Legal Aspects of Contracting	3
<del>CTEC 95abcd</del>	<del>Cooperative Work Experience Education</del>	<del>(2 - 4)</del>
CTEC 201	Upper Residential Cabinets	2



CTEC 202	Base Residential Cabinets	2
CTEC 203	Dedicated Use Cabinets	2
<b>Total Units: 34</b>		

## CHANGE IN CERTIFICATE; COURSE REQUIREMENTS, TOTAL UNITS

### 1. Engineering Technician Certificate of Achievement *Current Status/Proposed Changes*

<b>Certificate Requirements</b>		<b>Units</b>
Required Core: 16 units		
ETEC 10	Principles of Engineering Technology	3
or		
ETEC 10A	Principles of Engineering Technology I	1.5
and		
ETEC 10B	Principles of Engineering Technology II	1.5
ETEC 12	Introduction to Engineering Design	3
or		
ETEC 12A	Introduction to Engineering Design I	1.5
and		
ETEC 12B	Introduction to Engineering Design II	1.5
ETEC 14	Electronics for Engineering Technologists	3
or		
ETEC 14A	Electronics for Engineering Technologists I	1.5
and		
ETEC 14B	Electronics for Engineering Technologists II	1.5
ETEC 16	Computer Integrated Manufacturing	3
or		
ETEC 16A	Computer Integrated Manufacturing I	1.5
and		
ETEC 16B	Computer Integrated Manufacturing II	1.5
MTT 101	Introduction to Conventional and CNC Machining	4
three courses from: <u>5-9 units</u>		
ETEC 18	Engineering Design and Development	3
or		
ETEC 18A	Engineering Design and Development I	1.5
and		
ETEC 18B	Engineering Design and Development II	1.5
MTT 16	General Metals	3
CADD 28	Parametric Three Dimensional (3D) Modeling and Assemblies	2

ECHE 22	Basic Electronic Fabrication	3
MTEC 70	Basic Robotics	2
<del>MTEC 75</del>	<del>Integrated Robotic and Automated Technologies</del>	<del>3</del>
or		
MTEC 75A	Integrated Robotic and Automated Technologies I	1.5
<u>and</u>		
MTEC 75B	Integrated Robotic and Automated Technologies II	1.5
WELD 15	Basic Welding for Allied Fields	3
<u>ETEC 15</u>	<u>Aerospace Engineering</u>	<u>3</u>
<u>or</u>		
<u>ETEC 15A</u>	<u>Aerospace Engineering I</u>	<u>1.5</u>
<u>and</u>		
<u>ETEC 15B</u>	<u>Aerospace Engineering II</u>	<u>1.5</u>
<b>Total Units <del>26-28</del> <u>21-25</u></b>		

2. Engineering Technology Certificate of Achievement  
*Current Status/Proposed Changes*

<b>Certificate Requirements</b>		<b>Units</b>
Required Core: 26 units		
ETEC 10	Principles of Engineering Technology	3
or		
ETEC 10A	Principles of Engineering Technology I	1.5
and		
ETEC 10B	Principles of Engineering Technology II	1.5
ETEC 12	Introduction to Engineering Design	3
or		
ETEC 12A	Introduction to Engineering Design I	1.5
and		
ETEC 12B	Introduction to Engineering Design II	1.5
ETEC 14	Electronics for Engineering Technologists	3
or		
ETEC 14A	Electronics for Engineering Technologists I	1.5
and		
ETEC 14B	Electronics for Engineering Technologists II	1.5
ETEC 16	Computer Integrated Manufacturing	3
or		
ETEC 16A	Computer Integrated Manufacturing I	1.5
and		
ETEC 16B	Computer Integrated Manufacturing II	1.5

CHEM 1A	General Chemistry I	5
MATH 190	Single Variable Calculus and Analytic Geometry I	5
PHYS 2A	General Physics	4

two courses from: 3-7 units

CIS 13	Computer Information Systems	3
ECHT 110	Introduction to Direct and Alternating Current Circuits	3
ENGR 1	Introduction to Engineering	2
ENGR 9	Engineering Mechanics - Statics	3
ETEC 18	Engineering Design and Development	3

or

ETEC 18A	Engineering Design and Development I	1.5
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and

ETEC 18B	Engineering Design and Development II	1.5
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MTT 101	Introduction to Conventional and CNC Machining	4
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MTEC 70	Basic Robotics	2
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<del>MTEC 75</del>	<del>Integrated Robotic and Automated Technologies</del>	<del>3</del>
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or

MTEC 75A	Integrated Robotic and Automated Technologies I	1.5
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and

MTEC 75B	Integrated Robotic and Automated Technologies II	1.5
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<u>ETEC 15</u>	<u>Aerospace Engineering</u>	<u>3</u>
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or

<u>ETEC 15A</u>	<u>Aerospace Engineering I</u>	<u>1.5</u>
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and

<u>ETEC 15B</u>	<u>Aerospace Engineering II</u>	<u>1.5</u>
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**Total Units ~~30-33~~ 29-33**

## MATHEMATICAL SCIENCES

### INACTIVATE COURSES

1. Computer Science 50 – Special Topics in Computer Science
2. Mathematics 50 – Special Topics in Mathematics

## NATURAL SCIENCES

### COURSE REVIEW; NONSUBSTANTIVE CHANGES

1. Biology 10 – Fundamentals of Biology

## **COURSE REVIEW; DISTANCE EDUCATION REVIEW**

1. Anatomy 32 – General Human Anatomy

## **COURSE REVIEW; DISTANCE EDUCATION REVIEW, CHANGES IN CONDITIONS OF ENROLLMENT (Pre/Corequisite, Recommended Preparation, or Enrollment Limitation)**

1. Biology 15 – Environmental Aspects of Biology  
*Current Status/Proposed Changes*  
Recommended Preparation: ~~eligibility for English 84~~ 82  
  
*Recommendation*  
Recommended Preparation: English 82