

**EL CAMINO COLLEGE**  
**MINUTES OF THE COLLEGE CURRICULUM COMMITTEE**  
**May 26, 2009**

Present: J. Davidson, A. Himsel, R. Hughes, L. Kjeseth, M. Lipe, V. Lloyd, E. Martinez,  
C. Mosqueda, M. Odanaka, V. Rapp, C. Somin, J. Thompson, J. Young

Absent: F. Arce, S. Panski

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

Ex-Officio Members Absent: C. Brinkman, D. Charles, R. Smith, T. Stewart

Also Present: E. Antoine, F. Baker, R. Elton-Collett, H. Hironaka, B. Jaffe, R. Mascolo,  
G. Miranda, S. Rodriguez, J. Soden

**CALL TO ORDER**

- Chair Young called the College Curriculum Committee (CCC) meeting to order at 2:30 p.m.

**CHAIR'S REPORT**

- The presentation from our last CCC meeting given by Articulation Officer, L. Suekawa was replicated at the Academic Senate meeting. A first reading of the resolution was conducted and the Senate will vote in June.
- Chair Young informed the Committee that the Kinesiology emphasis for the General Studies degree has been revised and will be forwarded to the Chancellor's Office for approval. She thanked L. Suekawa for her role in revising the emphasis.

**CURRICULUM REVIEW**

**Industry and Technology Proposals**

- S. Rodriguez, Dean of Industry and Technology distributed errata sheets to the Committee.
- S. Rodriguez presented course review proposals for Automotive Technology 14, 16, 23, 24, 25, 26, 34, 35, 43, and 45.
- A discussion ensued about the omission of the lecture/lab hours on the errata sheet. S. Rodriguez explained to the Committee that faculty from the Automotive Technology department wish to table changes in lecture/lab hours. H. Hironaka, faculty member from the department, addressed the Committee and provided the status of the certification process, and rationale for deferring the restructuring of the program.
- The Committee agreed that there will be no changes to the lecture/lab hours at this time.
- S. Rodriguez explained each section where revisions were made to the above-mentioned courses.

- Chair Young then called for a motion to approve the Industry and Technology course proposals and conditions of enrollment. J. Thompson moved, R. Hughes seconded and the motion carried.

### **Behavioral and Social Sciences Proposals**

- Dean G. Miranda distributed errata sheets to the Committee.
- She also introduced faculty members Juli Soden, Florence Baker, Ellen Antoine, and Richard Mascola.
- G. Miranda presented course review proposals for Anthropology 3, Anthropology 7, Anthropology 11, Anthropology 20A, Child Development 112, History 1B (102), History 5A (162), History 19 (154), Human Development 12, Philosophy 10, Political Science 3, and Psychology 7. She explained each section where revisions were made.
- Chair Young asked for a motion to approve the Behavioral and Social Sciences proposals, conditions of enrollment, and distance education versions (Anthropology 3, 7, 11, 20A, Child Development 112, History 162, Human Development 12, Philosophy 10, Political Science 3, and Psychology 7). M. Lipe moved, C. Somin seconded and the motion carried.

### **CONSENT AGENDA PROPOSALS**

- Chair Young directed the Committee's attention to today's consent agenda proposals.
- The Consent Agenda included four courses from Behavioral and Social Sciences, five courses from Business, ten courses from Fine Arts, and three courses from Industry and Technology.
- There were no questions or recommendations upon review.
- Chair Young then called for a motion to approve the Consent Agenda proposals, conditions of enrollment and distance education version for Business 16. L. Kjeseth moved, A. Himsel seconded and the motion carried.

### **COURSE REVIEW**

- At today's meeting were course review status sheets for each CCC Representative to review. Chair Young explained that the courses marked in red had already been reviewed this academic year. The remaining courses still need review.

### **SUMMER 2009 CURRICULUM REVIEW**

- Chair Young answered questions from the Committee about summer meetings for CCC Representatives.

### **CURRICUNET**

- There was a brief update and computer presentation from Chair Elect, L. Kjeseth on CurricUNET.
- The goal is to conduct the CCC's first meeting via CurricUNET on October 27, 2009.

**LECTURE/LAB HOURS PRESENTATION**

- Chair Elect, L. Kjeseth also conducted a PowerPoint presentation on lecture and lab hours in regards to the credit hour.
- There was a brief discussion after the presentation.

**ANNOUNCEMENTS/PRESENTATIONS**

- Chair Young presented C. Mosqueda and C. Somin with their certificates of appreciation and thanked them for their service on the Committee.
- Chair Elect, L. Kjeseth announced that we will move to the staff lounge for a reception honoring Chair Young immediately after the meeting.

**ADJOURNMENT**

- Chair Young called for a motion to adjourn the meeting. C. Somin moved, C. Mosqueda seconded and the motion carried.

**EL CAMINO COLLEGE  
COLLEGE CURRICULUM COMMITTEE**

**Proposed Curriculum Changes  
May 26, 2009**

**BEHAVIORAL AND SOCIAL SCIENCES DIVISION**

**INACTIVATE DISTANCE EDUCATION VERSION**

1. History 1B – United States History from 1877 to the Present (Telecourse)

**NEW DISTANCE EDUCATION COURSE VERSIONS**

1. Anthropology 3 – Introduction to Archaeology (Online)
2. Anthropology 7 – Native Peoples of South America (Online)
3. Anthropology 11 – Anthropology of Religion, Magic and Witchcraft (Online)
4. Anthropology 20A – Introduction to Museum Studies (Online)
5. Child Development 112 – Teaching Young Children in a Diverse Society (Online)
6. History 162 – History of Early Britain (Online)
7. Human Development 12 – Strategies for Success in the Workplace (Online)
8. Philosophy 10 – History of Ancient and Medieval Philosophy (Online)
9. Political Science 3 – Introduction to Principles and Methods of Political Science
10. Psychology 7 – Physiological Psychology (Online)

**COURSE REVIEW; DISTANCE EDUCATION UPDATE**

1. Anthropology 1 – Introduction to Physical Anthropology

**COURSE REVIEW; DISTANCE EDUCATION UPDATE; CHANGE IN CATALOG DESCRIPTION**

1. Anthropology 2 – Introduction to Cultural Anthropology  
*Current Status/Proposed Change*  
This course will provide students with an introduction to anthropological culture theory as well as a to the cross-cultural understanding of human behavior. Emphasis will be placed on subsistence strategies, marriage, and kinship; institutions; levels of

sociopolitical, ~~economic~~ organization; and religious systems along; with the effects of cultural change, mainly as the result of European expansion, industrialization, and globalization.

*Recommendation:*

This course will provide students with an introduction to culture theory as well as to the cross-cultural understanding of human behavior. Emphasis will be placed on subsistence strategies, marriage and kinship institutions; levels of sociopolitical, organization; and religious systems along; with the effects of cultural change, mainly as the result of European expansion, industrialization, and globalization.

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

*Current Status/Proposed Change*

1. Child Development 103 – Child Growth and Development

This course is an introduction to child development from conception through adolescence with emphasis on physical, cognitive and psychosocial growth. The effect of environmental and cultural influences on development will be investigated. Developmental theories will be analyzed and tested through practical applications such as child observations and interviews.

Note: This is a core course for all teachers and assistants in early childhood programs ~~for young children~~ regulated by the California State Department of Social Services and the State Department of Education California.

*Recommendation:*

Child Development 103 – Child Growth and Development

This course is an introduction to child development from conception through adolescence with emphasis on physical, cognitive and psychosocial growth. The effect of environmental and cultural influences on development will be investigated. Developmental theories will be analyzed and tested through practical applications such as child observations and interviews.

Note: This is a core course for all teachers and assistants in early childhood programs regulated by the State of California.

**COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION**

1. Anthropology 3 – Introduction to Archaeology

*Current Status/Proposed Change*

This course is a survey of the field of archaeology in the United States and abroad. It traces the history, ideas, issues, and research methodologies within the field of archaeology, and reviews the concepts and research methodologies commonly encountered within the field of archaeology. Students will be introduced to basic techniques of soils analysis and archaeological data materials analysis.

*Recommendation:*

This course is a survey of the field of archaeology in the United States and abroad. It traces the history of archaeology, and reviews the concepts and research methodologies commonly encountered within the field of archaeology. Students will be introduced to basic techniques of soils analysis and archaeological materials analysis.

2. Anthropology 7 – Native Peoples of South America

*Current Status/Proposed Change*

~~The~~ This course will focus on the study of the native peoples of South America, including their prehistory. Special emphasis is placed on the understanding of the relationship between the environmental zones of South America and the social, economic, political, and religious beliefs. The institutions of indigenous societies. The current conditions of South American indigenous groups most often as the result of colonialist policies which include impact of European contact and resultant adaptations, as well as current life situations of tribal descendants in contemporary society, will globalization and modernization, are also be examined.

*Recommendation:*

This course focuses on the study of the native peoples of South America. Special emphasis is placed on the understanding of the relationship between the environmental zones of South America and the social, economic, political, and religious institutions of indigenous societies. The current conditions of South American indigenous groups, most often as the result of colonialist policies which include globalization and modernization, are also examined.

3. Anthropology 20A – Introduction to Museum Studies

*Current Status/Proposed Change*

This course examines careers in museums, including curation, conservation, registration, the design of exhibits, collections management, and educational programs. Participants in the course will plan, design and install an exhibit in the Anthropology Museum involving two- and three-dimensional ~~artworks~~ artifacts, and participate in all aspects of museum curation.

Note: No background in Anthropology is required.

*Recommendation:*

This course examines careers in museums, including curation, conservation, registration, the design of exhibits, collections management, and educational programs. Participants in the course will plan, design and install an exhibit in the Anthropology Museum involving two- and three-dimensional artifacts, and participate in all aspects of museum curation.

Note: No background in Anthropology is required.

4. Child Development 104 – The Home, The School, The Community

*Current Status/Proposed Change*

This course examines the ~~interrelationship of the home, the school and the community~~

~~and the influences on interconnection among the development of children the child from infancy birth through to adolescence and the home/family, the school, and the community. Emphasis is placed on the methods, used by socializing influences of social agents such as family support services, educational systems, media, and peers groups and mass media to prepare on how these social agents contribute in preparing the child for living independently in a diverse society. Topics will include, but are not limited to: cultural influences on behavior, parenting styles, schooling, roles of teachers, peers, the media, children with special needs, cultural influences on behavior, child abuse, neglect, and social policy, child abuse and responding to the diverse needs of children in the school and community.~~

Note: This is a core course for all teachers and assistants in early childhood programs for young children regulated by the California State Department of Social Services and the State Department of Education California.

*Recommendation:*

This course examines the interconnection among the development of the child from birth to adolescence and the home/family, the school, and the community. Emphasis is placed on the influences of social agents such as family support services, educational systems, media, and peers and on how these social agents contribute in preparing the child for living independently in a diverse society. Topics will include parenting styles, schooling, roles of teachers, peers, the media, children with special needs, cultural influences on behavior, child abuse, neglect, and social policy.

Note: This is a core course for all teachers and assistants in early childhood programs regulated by the State of California.

5. Human Development 12 – Strategies for Success in the Workplace

*Current Status/Proposed Change*

This course will provide students with the knowledge, skills and personal/interpersonal awareness necessary for success in the workplace. Students will learn resume writing and interviewing skills, workplace roles and responsibilities, strategies for effective time management and effective workplace communication. Emphasis will be placed on identifying professional behaviors and values for success in the workplace.

*Recommendation:*

This course will provide students with the knowledge, skills and personal/interpersonal awareness necessary for success in the workplace. Students will learn resume writing and interviewing skills, workplace roles and responsibilities, strategies for effective time management and effective workplace communication. Emphasis will be placed on identifying professional behaviors and values for success in the workplace.

6. Political Science 3 – Introduction to Principles and Methods of Political Science

*Current Status/Proposed Change*

~~This course is a survey of the nature and scope of political science. The course focuses on the analysis of the basic concepts, political theories and subfields of the discipline political science.~~ Major topics ~~will~~ include a description of the methodology and research techniques employed by contemporary political scientists. ~~Also covered will be~~

~~an examination of m~~Major political theories of the individual and the state, and the impact of these themes on modern political ideologies will also be examined.

*Recommendation:*

This course focuses on analysis of the basic concepts, political theories and subfields of political science. Major topics include a description of the methodology and research techniques employed by contemporary political scientists. Major political theories of the individual and the state, and the impact of these themes on modern political ideologies will also be examined.

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

*Current Status/Proposed Change*

1. Anthropology 11 – Anthropology of ~~Magie~~, Religion, Magic, and Witchcraft  
This course is a cross-cultural and evolutionary survey of the supernatural. It includes an examination of magic and witchcraft practices and the different functions they play in various world societies including hunting and gathering groups, and tribal level and state level societies. Religious beliefs, symbolism and ritual are explained from an anthropological perspective.

*Recommendation:*

Anthropology 11 – Anthropology of Religion, Magic, and Witchcraft  
This course is a cross-cultural and evolutionary survey of the supernatural. It includes an examination of magic and witchcraft practices and the different functions they play in various world societies including hunting and gathering groups, and tribal level and state level societies. Religious beliefs, symbolism and ritual are explained from an anthropological perspective.

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

*Current Status/Proposed Change*

1. Child Development 112 – Teaching Young Children in ~~Multicultural Classrooms a~~ Diverse Society  
Prerequisite: Child Development 3 103 with a minimum grade of C or equivalent  
~~This course focuses on critical issues in diverse contemporary classrooms and offers strategies and resources needed to teach children effectively. Topics will include: the origins of cultural diversity in American society, the rationale for the need for culturally sensitive educators, the effect of culture on development, models of multicultural education and guidelines for implementing a multicultural program. Students will develop curriculum and activities designed to enhance multicultural experiences for children n ages 2-8 in group settings.~~  
In this course students will examine the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as

they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Topics include self-examination and reflection on issues related to social identity; stereotypes and bias; social and educational access; and media and schooling.

*Recommendation:*

Child Development 112 – Teaching Young Children in a Diverse Society

Prerequisite: Child Development 103 with a minimum grade of C or equivalent

In this course students will examine the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Topics include self-examination and reflection on issues related to social identity; stereotypes and bias; social and educational access; and media and schooling.

**COURSE REVIEW; DISTANCE EDUCATION UPDATE; CHANGES IN NUMBER, CATALOG DESCRIPTION, CSU GENERAL EDUCATION REQUIREMENT, IGETC GENERAL EDUCATION**

*Current Status/Proposed Change*

1. History ~~1B~~ 102 – United States History from 1877 to the Present

This course is a chronological survey of American ~~historical development~~ history from 1877 to the present. ~~Emphasis is placed on the understanding of~~ focusing on American social, intellectual, political, economic, and diplomatic institutions. ~~Special topical consideration will be given to the nation's~~ Major topics include culture, ethnic and racial diversity. ~~The emergence and the role of the United States as a superpower is analyzed against within the background context of world history.~~

Note: History ~~1A~~ 101 is not a prerequisite.

CSU General Education Requirement - Area D6

CSU General Education Requirement - Area C2

IGETC General Education Requirement - Area 4

*Recommendation:*

History 102 – United States History from 1877 to the Present

This course is a chronological survey of American history from 1877 to the present, focusing on American social, intellectual, political, economic, and diplomatic institutions. Major topics include culture, ethnic and racial diversity and the role of the United States within the context of world history.

Note: History 101 is not a prerequisite.

CSU General Education Requirement - Area D6

CSU General Education Requirement - Area C2

IGETC General Education Requirement - Area 4

*Current Status/Proposed Change*

2. History ~~49~~ 154 – A History of Mexico

This course surveys the political, social, cultural, and economic history of Mexico from Pre-Columbian times to the present. Discussion of major epochs of Mexican history will focus on the influence of various cultural groups in shaping modern Mexico.

CSU General Education Requirement - Area D6

CSU General Education Requirement - Area C2

IGETC General Education Requirement - Area 4

*Recommendation:*

History 154 – A History of Mexico

This course surveys the political, social, cultural, and economic history of Mexico from Pre-Columbian times to the present. Discussion of major epochs of Mexican history will focus on the influence of various cultural groups in shaping modern Mexico.

CSU General Education Requirement - Area D6

CSU General Education Requirement - Area C2

IGETC General Education Requirement - Area 4

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

*Current Status/Proposed Change*

1. History ~~5A~~ 162 – History of Early Britain

This course focuses on the political, economic, social, and cultural development of Britain from earliest times to the 17<sup>th</sup> century. Topics include the emergence of common law and representative government, ~~from which Anglo-American civil liberties were derived. The course will also focus on the foundation of the British Empire as the evolution of England began to evolve into as a major power holding a central position in the world based upon on maritime and commercial supremacy. Cultural development and the foundations of the British Empire. Cultural development through the English Renaissance and Baroque periods will also be explored~~ examined.

CSU General Education Requirement - Area D6

CSU General Education Requirement - Area C2

IGETC General Education Requirement - Area 4

*Recommendation:*

History 162 – History of Early Britain

This course focuses on the political, economic, social, and cultural development of Britain from earliest times to the 17<sup>th</sup> century. Topics include the emergence of common law and representative government, the evolution of England as a major power based on maritime and commercial supremacy, and the foundations of the British Empire. Cultural development through the English Renaissance and Baroque periods will also be examined.

CSU General Education Requirement - Area D6

CSU General Education Requirement - Area C2

IGETC General Education Requirement - Area 4

**COURSE REVIEW**

1. Philosophy 10 – History of Ancient and Medieval Philosophy

**COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION, A.A./A.S. GENERAL EDUCATION REQUIREMENT, CSU GENERAL EDUCATION REQUIREMENT**

1. Psychology 7 – Physiological Psychology

*Current Status/Proposed Change*

This course focuses on ~~the physiological foundation of~~ factors in human development, behavior, and experience. ~~Brain behavior relations are explored in different aspects of functioning, including~~ Fundamental topics include consciousness, language, emotion, sex, learning and memory, and sensation/ and perception, ~~movement, and motivation.~~ ~~Also covered are neurological and psychological disorders.~~ ~~Data from human and infrahuman studies are presented to illustrate the logic of the scientific method in uncovering the structure and functions of the nervous and endocrine systems as they relate to behavior.~~ Clinical topics include Sexual Disorders, Bipolar Disorder, Schizophrenia, Post-Traumatic Stress Disorder, Autism, Alzheimer’s Disease, and traumatic brain injury. Studies of both humans and other animals are evaluated and organized by scientific and clinical standards.

A.A./A.S. General Education Requirement – Natural Sciences

CSU General Education Requirement – Area B2

*Recommendation:*

This course focuses on physiological factors in human development, behavior, and experience. Fundamental topics include consciousness, language, emotion, memory, and sensation/perception. Clinical topics include Sexual Disorders, Bipolar Disorder, Schizophrenia, Post-Traumatic Stress Disorder, Autism, Alzheimer’s Disease, and traumatic brain injury. Studies of both humans and other animals are evaluated and organized by scientific and clinical standards.

A.A./A.S. General Education Requirement – Natural Sciences

CSU General Education Requirement – Area B2

**BUSINESS DIVISION**

**COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION**

1. Business 16 – 10-Key Calculating for Business

*Current Status/Proposed Change*

This course offers instruction and practice for developing speed and accuracy on the 10-key computer keypad using proper touch techniques. Students will ~~learn to~~ apply basic math and calculator functions to typical business tasks such as bank reconciliations, invoice preparation and audit, calculation of interest and discounts, pricing markups and markdowns, and payroll, invoices, pricing, inventory, earnings and depreciation taxes.

*Recommendation:*

This course offers instruction and practice for developing speed and accuracy on the 10-key computer keypad using proper touch techniques. Students will apply basic math and calculator functions to typical business tasks such as bank reconciliations, invoice preparation and audit, calculation of interest and discounts, pricing markups and markdowns, and payroll earnings and taxes.

2. Computer Information Systems 29 – Advanced Database Applications

*Current Status/Proposed Change*

This course offers ~~introductory~~ the student advanced instruction in ~~the use of~~ relational databases ~~management systems within~~ in a Windows environment. The student designs and develops a database from user specifications. Topics include analyzing source documents, normalizing a database, techniques of effective design and creating and implementing all tables and database objects. Applications used ~~for~~ are typical business ~~activities~~ operations such as inventory, sales, personnel, and finance ~~will be presented and human resources.~~

*Recommendation:*

This course offers the student advanced instruction in relational databases in a Windows environment. The student designs and develops a database from user specifications. Topics include analyzing source documents, normalizing a database, techniques of effective design and creating and implementing all tables and database objects. Applications used are typical business operations such as inventory and human resources.

**NEW DISTANCE EDUCATION COURSE VERSION**

1. Business 16 – 10-Key Calculating for Business (Online)

**COURSE REVIEW**

1. Computer Information Systems 27 – Using Spreadsheet Macros

**COURSE REVIEW; CHANGE IN TRANSFER STATUS**

1. Computer Information Systems 80 – Oracle Application Programming

*Current Status/Proposed Change*

~~No Transfer UC~~ Proposed Transfer UC

*Recommendation:*

Proposed Transfer UC

**COURSE REVIEW; DISTANCE EDUCATION UPDATE; CHANGE IN TRANSER STATUS**

1. Law 4 – Legal Environment of Business

~~No Transfer UC~~ Proposed Transfer UC

*Recommendation:*  
Proposed Transfer UC

## FINE ARTS DIVISION

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

1. Art 11abcd – Drawing Fundamentals II

*Current Status/Proposed Change*

Prerequisite: one semester of Art 10ab with a minimum grade of C or equivalent

This course provides intermediate instruction in drawing with emphasis on media development, pictorial space, composition, ~~and interpretation, and improvisation.~~  
~~Students will also be introduced to experimental and improvisational techniques.~~

*Recommendation:*

Prerequisite: one semester of Art 10ab with a minimum grade of C or equivalent

This course provides intermediate instruction in drawing with emphasis on media development, pictorial space, composition, interpretation, and improvisation.

2. Art 52abcd - Rendering

*Current Status/Proposed Change*

Prerequisite: one semester of Art 10ab with a minimum grade of C or equivalent

This course covers the basic methods and techniques of rendering. Emphasis is placed on ~~the use of various art~~ graphic representation of three-dimensional form, space, and volume within an illusory and sharp-focused context. Topics include form analysis and the application of media such as markers, water-based paint, ink, graphite, pastel and colored pencil, within an illusory and sharp-focused context. Materials will be prepared  
Preparation of art work for portfolio presentation will also be covered.

*Recommendation:*

Prerequisite: one semester of Art 10ab with a minimum grade of C or equivalent

This course covers the basic methods and techniques of rendering. Emphasis is placed on the graphic representation of three-dimensional form, space, and volume within an illusory and sharp-focused context. Topics include form analysis and the application of media such as markers, water-based paint, ink, graphite, pastel and colored pencil. Preparation of art work for portfolio presentation will also be covered.

### **COURSE REVIEW**

1. Music 2A – Beginning Sightsinging

2. Music 2B – Advanced Sightsinging
3. Music 18ab – Voice Class I
4. Music 19abcd – Voice Class II
5. Music 41abcd – Opera Workshop
6. Music 52abcd – Concert Choir
7. Music 53abcd – Chorale
8. Music 57abcd – Women’s Chorus

### INDUSTRY AND TECHNOLOGY DIVISION

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

1. Automotive Technology 14 - Brakes

*Current Status/Proposed Change*

Recommended Preparation: Automotive Technology 1 or ~~concurrent enrollment or testing (qualifying score on the Automotive Placement Test) and assessment equivalent~~

This course covers the study of brake systems, including anti-lock (ABS) brake systems (ABS) and their operation. Laboratory activities stress brake system diagnosis, repair, machining, and overhaul procedures and proper use of tools and equipment utilized in the automotive industry.

Note: ~~The~~ two-course sequence Automotive Technology 14 and 16 is the same as Automotive Technology 11.

*Recommendation:*

Recommended Preparation: Automotive Technology 1 or equivalent

This course covers the study of brake systems, including anti-lock brake systems (ABS) and their operation. Laboratory activities stress brake system diagnosis, repair, machining, overhaul procedures and proper use of tools and equipment utilized in the automotive industry.

Note: The two-course sequence Automotive Technology 14 and 16 is the same as Automotive Technology 11.

2. Automotive Technology 16 – Suspension and Four Wheel Alignment

*Current Status/Proposed Change*

Recommended Preparation: Automotive Technology 1 or ~~concurrent enrollment or testing (qualifying score on the Automotive Placement Test) and assessment equivalent~~

This course covers the study of suspension and steering systems construction and their operation. Laboratory activities stress suspension and steering system diagnosis, repair, machining, overhaul, front wheel and four wheel alignment procedures and proper use of tools and equipment utilized in the automotive field.

Note: The ~~Two~~-course sequence Automotive Technology 14 and 16 is the same as Automotive Technology 11.

*Recommendation:*

Recommended Preparation: Automotive Technology 1 or equivalent

This course covers the study of suspension and steering systems construction and their operation. Laboratory activities stress suspension and steering system diagnosis, repair, machining, overhaul, front wheel and four wheel alignment procedures and proper use of tools and equipment utilized in the automotive field.

Note: The two-course sequence Automotive Technology 14 and 16 is the same as Automotive Technology 11.

3. Automotive Technology 26 – Automotive Testing and Diagnosis

*Current Status/Proposed Change*

Prerequisite: ~~minimum~~ A total of 8 units with a minimum grade of C ~~in each prerequisite course~~ is required from the following courses: Automotive Technology 22A, 23, 24, 25 or equivalent

This course covers the study of advanced automotive testing and diagnostic procedures of the following systems: ignition, fuel, emissions, electrical and electronic, and computer control systems. Laboratory activities stress the proper use of diagnostic equipment utilized in the automotive field.

Note: The ~~Two~~-course sequence Automotive Technology 25 and 26 is the same as Automotive Technology 22B.

*Recommendation:*

Prerequisite: A total of 8 units with a minimum grade of C is required from the following courses: Automotive Technology 22A, 23, 24, 25 or equivalent

This course covers the study of advanced automotive testing and diagnostic procedures of the following systems: ignition, fuel, emissions, electrical and electronic, and computer control systems. Laboratory activities stress the proper use of diagnostic equipment utilized in the automotive field.

Note: The two-course sequence Automotive Technology 25 and 26 is the same as Automotive Technology 22B.

**COURSE REVIEW; CHANGE IN CATALOG DESCRIPTION**

1. Automotive Technology 23 – Major Tune-Up and Emission Controls

*Current Status/Proposed Change*

This course covers the study of major engine tune-up; and service and testing of emission control systems. Laboratory activities stress the proper use of test equipment utilized in the automotive field.

Note: The ~~Two~~-course sequence Automotive Technology 23 and 24 is the same as Automotive Technology 22A.

*Recommendation:*

This course covers the study of major engine tune-up and service and testing of emission control systems. Laboratory activities stress the proper use of test equipment utilized in the automotive field.

Note: The two-course sequence Automotive Technology 23 and 24 is the same as Automotive Technology 22A.

2. Automotive Technology 24 – Fuel Systems and Emissions

*Current Status/Proposed Change*

This course covers the study of fuel system service, testing and diagnosis, including carburetor overhaul procedures, fuel injection and computer controlled fuel systems. Laboratory activities stress the proper use of test equipment utilized in the automotive field.

Note: The ~~Two~~-course sequence Automotive Technology 23 and 24 is the same as Automotive Technology 22A.

*Recommendation:*

This course covers the study of fuel system service, testing and diagnosis, including carburetor overhaul procedures, fuel injection and computer controlled fuel systems. Laboratory activities stress the proper use of test equipment utilized in the automotive field.

Note: The two-course sequence Automotive Technology 23 and 24 is the same as Automotive Technology 22A.

3. Automotive Technology 25 – Automotive Electrical Systems

*Current Status/Proposed Change*

This course covers the theory and operation of automotive electronic components and systems. Laboratory activities stress proper use of test equipment utilized in the automotive field.

Note: The ~~Two~~-course sequence Automotive Technology 25 and 26 is the same as Automotive Technology 22B.

*Recommendation:*

This course covers the theory and operation of automotive electronic components and systems. Laboratory activities stress proper use of test equipment utilized in the automotive field.

Note: The two-course sequence Automotive Technology 25 and 26 is the same as Automotive Technology 22B.

4. Automotive Technology 34 – Automatic Transmissions

*Current Status/Proposed Change*

This course covers the study of automatic transmission construction and operation. Laboratory activities stress diagnosis, repair, overhaul procedures and the proper use of tools utilized in the automotive field.

Note: The ~~T~~two-course sequence Automotive Technology 34 and 35 is the same as Automotive Technology 33. Students who have completed Automotive Technology 34 and 35 will not receive credit for Automotive Technology 33.

*Recommendation:*

This course covers the study of automatic transmission construction and operation. Laboratory activities stress diagnosis, repair, overhaul procedures and the proper use of tools utilized in the automotive field.

Note: The two-course sequence Automotive Technology 34 and 35 is the same as Automotive Technology 33. Students who have completed Automotive Technology 34 and 35 will not receive credit for Automotive Technology 33.

5. Automotive Technology 35 – Manual Transmission, Drive Train and Drive Axles  
*Current Status/Proposed Change*

This course covers the study of manual transmission, clutch, drive line and drive axle construction and operation. Laboratory activities stress diagnosis, repair, overhaul procedures and the proper use of tools utilized in the automotive field.

Note: The ~~T~~two-course sequence Automotive Technology 34 and 35 is the same as Automotive Technology 33. Students who have completed Automotive Technology 34 and 35 will not receive credit for Automotive Technology 33.

*Recommendation:*

This course covers the study of manual transmission, clutch, drive line and drive axle construction and operation. Laboratory activities stress diagnosis, repair, overhaul procedures and the proper use of tools utilized in the automotive field.

Note: The two-course sequence Automotive Technology 34 and 35 is the same as Automotive Technology 33. Students who have completed Automotive Technology 34 and 35 will not receive credit for Automotive Technology 33.

6. Automotive Technology 43 – Introduction to Engine Repair  
*Current Status/Proposed Change*

This course covers the study of automotive engine construction and operation, diagnosis and repair procedures of the following: cylinder head removal and valve grinding, camshaft and timing gear replacement, water pump replacement, oil coolant and manifold (intake and exhaust) leaks and engine maintenance. Laboratory activities stress the proper use of equipment utilized in the automotive field.

*Recommendation:*

This course covers the study of automotive engine construction and operation, diagnosis and repair procedures of the following: cylinder head removal and valve grinding, camshaft and timing gear replacement, water pump replacement, oil coolant and manifold (intake and exhaust) leaks and engine maintenance. Laboratory activities stress the proper use of equipment utilized in the automotive field.

7. Automotive Technology 45 – Automotive Machining

*Current Status/Proposed Change*

This course covers the study of the machining processes used in the automotive trade, including but not limited to: drilling and tapping, milling, boring and honing, pin fitting, press work, resurfacing, reaming, knurling, repairing of damaged threads, measuring, grinding, and crack detection methods and repairing. Laboratory activities stress proper use of equipment utilized in the automotive field.

*Recommendation:*

This course covers the study of the machining processes used in the automotive trade, including but not limited to: drilling and tapping, milling, boring and honing, pin fitting, press work, resurfacing, reaming, knurling, repairing of damaged threads, measuring, grinding, and crack detection methods and repairing. Laboratory activities stress proper use of equipment utilized in the automotive field.

8. Construction Technology 150 – Contract Estimating

*Current Status/Proposed Change*

~~This course covers building estimating, bidding procedures, is designed for those with construction backgrounds who desire to advance to a supervisory position or become contractors. Topics include: blueprint reading, and the uniform International Building Code (IBC). It is for persons in the building trades who desire to advance to a supervisory position or to become a contractor. requirements, quantity surveying and estimating, and basic financial statements.~~

*Recommendation:*

This course is designed for those with construction backgrounds who desire to advance to a supervisory position or become contractors. Topics include: blueprint reading, International Building Code (IBC) requirements, quantity surveying and estimating, and basic financial statements.

9. Construction Technology 160 – Business and Legal Aspects of Contracting

*Current Status/Proposed Change*

This course is designed for those with construction backgrounds who desire to advance to a supervisory position or become contractors. Topics include: ~~the~~ legal and business aspects of a contracting organization, Contractor's License Law, Lien Laws, labor code, payroll deductions, business organization and planning, and management principles.

*Recommendation:*

This course is designed for those with construction backgrounds who desire to advance to a supervisory position or become contractors. Topics include: legal and business aspects of a contracting organization, Contractor's License Law, Lien Laws, labor code, payroll deductions, business organization and planning, and management principles.

10. Construction Technology 180 – Residential Plumbing

*Current Status/Proposed Change*

This course ~~covers~~ explores the layout and fabrication techniques needed to erect a water and waste plumbing system for a residence. Students apply appropriate methods and procedures by selecting proper size pipes, fittings, fixtures and accessories and install and test various fixtures and systems. Other topics include the diagnosing, troubleshooting and clearing of stoppages in a plumbing system.

*Recommendation:*

This course explores the layout and fabrication techniques needed to erect a water and waste plumbing system for a residence. Students apply appropriate methods and procedures by selecting proper size pipes, fittings, fixtures and accessories and install and test various fixtures and systems. Other topics include the diagnosing, troubleshooting and clearing of stoppages in a plumbing system.

**NATURAL SCIENCES DIVISION**

**COURSE REVIEW; DISTANCE EDUCATION UPDATE**

1. Oceanography 10 – Introduction to Oceanography

**COURSE REVIEW**

1. Physics 2B – General Physics