



**MODESTO JUNIOR COLLEGE
CATALOG ADDENDUM
2012-2013**

YOSEMITE COMMUNITY COLLEGE DISTRICT

*435 College Avenue
Modesto, California 95350
www.mjc.edu
Price: \$3.00*

ACCREDITED BY:

The Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges
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CSU-GE Transfer Pattern 2012-2013*

MJC's General Education Pattern for Transfer to the California State University System

The CSU-GE pattern is one option that allows California community college transfer students to fulfill the lower-division general education requirements of any California State University (CSU) campus. The curriculum consists of a 39-unit pattern with five areas of concentration (Area A-E). The CSU History, Constitution, and American Ideals requirement may also be completed at MJC prior to transfer. All courses must be passed with a grade of "C" or higher, "P", or "CR". CSU-GE is not the only way to fulfill the lower division GE requirements of a CSU campus prior to transfer. It is recommended that students consult with a counselor or enroll in a Guidance class to ensure their individual educational goals are being met. Request for complete or partial area CSU-GE Certification must be made in the Records Office, Morris Building, Room 105. For more information see "Certification of General Education" on 64 in the 2012-2013 MJC catalog.

AREA A

English Language, Communication, and Critical Thinking

Complete one course in each category for a total of nine (9) units.

A.1 ORAL COMMUNICATION

- SPCOM 100 Fundamentals of Public Speaking (3)
- SPCOM 102 Introduction to Human Communication (3)
- SPCOM 110 Persuasion (3) (F03)

A.2 WRITTEN COMMUNICATION

- ENGL 101 Comp and Reading (3)

A.3 CRITICAL THINKING

- CMPSC 103 Symbolic Logic (3)
- ENGL 103 Adv. Comp. & Crit. Think. (3)
- PHILO 103 Symbolic Logic (3)
- PHILO 105 Reasoning (3)
- PHILO 107 Philo of Science (3) (F93)
- SPCOM 104 Argumentation (3)
- SPCOM 107 Intro to Debate (3) (F90)

AREA B Scientific Inquiry and Quantitative Reasoning

Nine (9) units with one course from B.1, B.2, and B.4 required. One course from B.1 or B.2 must be a laboratory course (marked with an asterisk*) for B.3.

B.1 PHYSICAL SCIENCE

- ASTRO 141 Intro Astrophysics (3)
- ASTRO 141-151* Intro Astro/Lab (3-1)
- ASTRO 160 Intro to Modern Astro (3)
- ASTRO 160-151* Intro to Mod Astro/Lab (3-1)
- CHEM 101* Gen. Chemistry 1 (5)
- CHEM 102* Gen. Chemistry 2 (5)
- CHEM 112* Organic Chem 1 (5) (F91)
- CHEM 113* Organic Chem 2 (5) (F91)
- CHEM 142 Pre-General Chemistry (3)
- CHEM 143* Intro College Chem (5)
- CHEM 144* Fund of Organic & Biochemistrt (4)
- CHEM 150 Exploring Our Chemical Environment (3)
- CHEM 150-164* Exploring Our Chemical Envrnmt/Lab(3-1)(F07)
- EASCI 161* Earth Science (4)
- EASCI 162* Introduction to Oceanography(4)(Su08)
- GEOG 101 Physical Geography (3)
- GEOL 160 Intro to Geology (3) (F95)
- GEOL 161* Physical Geology (4) (F90)

B.1 PHYSICAL SCIENCE (continued)

- GEOL 165 Geol of California (3)
- GEOL 166* Historical Geol (4) (F90)
- METEO 161* Intro to Meteorology(4)(Su08)
- NR 200* Soils (4) (F02)(F04)
- PHSCI 161 Science Matters (3)
- PHSCI 161-164* Science Matters/Lab (3-1) (F97)
- PHYS 101* Gen Phys: Mechanics (5)
- PHYS 102* Gen Phys: Waves, Therm, Optics (5)

- PHYS 103* Gen Phys: Elect, Mag, & Mod Phys (5)
- PHYS 142* Mech, Heat & Waves (5)
- PHYS 143* Electricity, Magnetism, Optics...(5)
- PHYS 160 Descrip Intro to Physics (3)
- PHYS 160-164* Descrip Intro to Physics/Lab(3-1)(F97)
- PHYS 165* Introductory Physics (5)
- PHYS 180* Conceptual Physics: Hands On (4)(Su08)

B.2 LIFE SCIENCE

- ANAT 125* Human Anatomy (5)
- ANSC 200 Intro to Animal Science (3) (S06)
- ANTHR 101^ Phys Anthropology (3) (F90)
- ANTHR 101^-.105* Phys Anthro/Lab (3-1) (F90)(F98)
- AP 150* Integr Anat/Physio (5) (F96)
- BIO 101* Biological Principles (5)
- BIO 111* General Biology (4)
- BIO 114* General Ecology (4) (SU10)
- BIO 115 Genetics, Evol & Soc (3) (F97)
- BIO 116* Biology: A Human Perspective (4)(SU10)
- BIO 140* Intro to Marine Biology (4)
- BIO 145* Intro to Freshwater Biology (4)
- BOT 101* General Botany (4)
- BOT 110* Plant Biology (3)
- ENSCI 108 Env. Conservation (3) (F97)
- MICRO 101* Microbiology (4) (F94)
- PHYSO 101* Intro Human Physio (5)
- PHYSO 103 Introduction to Neuroscience (3)(SU08)
- PLSC 200 Intro to Plant Science (3)
- PSYCH 103 Introduction to Neuroscience (3)(F90)
- ZOOL101* General Zoology (4)

B.3 LABORATORY ACTIVITY

Take one course from B.1 or B.2 with a laboratory, as indicated by the asterisk*).

B.4 MATHEMATICS AND QUANTITATIVE REASONING

- CMPSC 219 Discrete Structures for Computer Sci. (4)(SU10)
- MATH 101 Math Ideas and Applications (3) (F90)
- MATH 105 Structure of Mathematics 1 (4)
- MATH 106 Structure of Mathematics 2 (4) (F93)
- MATH 111 Applied College Algebra (3) (F02)
- MATH 121 Pre-Calculus 1 (5) (F98)
- MATH 122 Pre-Calculus 2 (5) (F98)
- MATH 130 Finite Mathematics (3)
- MATH 134 Elementary Statistics (5)
- MATH 138 Calculus for Bus/S.S. (3)
- MATH 171 Calculus: First Course (5)
- MATH 172 Calculus: Second Course (5)
- MATH 173 Calculus: Third Course (5) (S07)
- MATH 174 Intro. to Linear Alg. & Ord. Diff. Eq. (5)(S07)

AREA C

Arts and Humanities

Nine (9) units required. Three (3) units from C.1 and three (3) units from C.2. Three (3) additional units from C.1 or C.2.

C.1 ARTS (ARTS, DANCE, MUSIC, THEATRE)

- ART 102 Intro to Computer Graphics (3)(F95)
- ART 120 Basic Drawing 1 (3)
- ART 140 Sculpture 1 (3)
- ART 160 Appreciation of Art (3)
- ART 162 Hist of Renaissance Art (3) (F92)
- ART 163 Hist of Modern Art (3) (F94)
- ART 164 History of Art 1 (3)
- ART 165 History of Art 2 (3)
- ART 168 Survey of Photography (3)
- ART 169 History of Non-Western Art (3)(F99)
- ART 170 Basic Photography (3) (F89)
- CMPGR 202 Intro to Computer Graphics (3)(F95)
- ENGL 161^ Film Appreciation (4) (F05)
- FILM 154 Movies with a Message (3)(F07)
- FILM 155 The Documentary Film (3) (SU07)
- INTDS 150 Hist. of Interiors-Dec. Arts 1 (3) (SU07)
- MUSG 101 Music Appreciation (3)
- MUSG 102 Intro to World Music (3)(F99)
- MUSG 111 Intro to Amer Pop Music (3)
- MUSG 121 History of Western Music 1 (S05)
- MUSG 122 History of Western Music 2 (3) (F93)
- MUST 121 Music Theory 1 (3) (F91)
- MUST 122 Music Theory 2 (3) (F91)
- MUST 123 Music Theory 3 (3) (F93)
- MUST 124 Music Theory 4 (3) (F91)
- PE 194 Intro to World Dance (3) (F01)
- SOCSC 154 Movies with a Message (3)(F07)
- SPCOM 120 Oral Read & Interpretation (3)
- SPCOM122 Intro to Readers' Their (3)
- SPCOM 123 Storytelling (3)(F00)
- SPCOM 124 Advanced Readers' Theatre (3)
- THETR 100 Intro to Theatre Arts (3)
- THETR 102 World Theatre (3) (F05)
- THETR 120 Oral Read & Interp(3)
- THETR 122 Intro to Readers' Their (3)
- THETR 123 Storytelling (3)(F00)
- THETR 124 Advanced Readers' Theatre (3)
- THETR 150^ Elements of Playwriting (3) (F94)
- THETR 160 Fundamentals of Acting (3)
- THETR 161 Intermediate Acting (3)
- THETR 165 History of American Music Theater(3)(F92)
- THETR 194 Intro to World Dance (3) (F01)

Legend

- (3) Units earned
- (F97) Students completing this course prior to term (F: Fall, S: Spring, SU: Summer) and year indicated will not be allowed to fulfill this requirement with this course.
- ^ Although listed in more than one area, the course may be counted toward only one CSU-GE pattern area.
- * Denotes a lab science course.

C.2 HUMANITIES (LITERATURE, PHILOSOPHY, AND FOREIGN LANGUAGES)

- ANTHR 104^A Linguistic Anthropology (3)(SU07)
- ENGL 102 Adv Comp & Intro to Lit (3)
- ENGL 105 Creative Writing: Poetry (3)
- ENGL 106 Creative Writing: Short Fiction (3)
- ENGL 112 Intro to Novel & Shrt Story (3)
- ENGL 114 Intro to Poetry (3)
- ENGL 116 Intro to Drama (3)
- ENGL 131 Intro to World Lit to 1500 (3)
- ENGL 132 Intro to World Lit 1500 to Present (3)
- ENGL 135 Survey of American Lit to 1850 (3)
- ENGL 136 Survey of American Lit: 1850 to Present (3)
- ENGL 137 Survey of Engl Lit. to 18th Century (3)
- ENGL 138 Survey of Engl Lit. 1700-Present (3)
- ENGL 151 Introduction to Folklore (3)
- ENGL 156 Bible as Lit.- Hebrew Canon (3)
- ENGL 157 Bible as Lit-New Testament (3)
- ENGL 161^A Film Appreciation (4) (F05)
- ENGL 162 History of Cinema (3) (F03)
- ENGL 163 Intro to Shakespeare (3)
- ENGL 168 Adolescent Lit (3) (F90)
- ENGL 169 Children's Lit (3)
- ENGL 171 Intro African-Amer Lit (3)(F90)
- ENGL 172 Intro to Chicano/a Lit (3) (F93)
- ENGL 173 Intro Latin Amer Lit (3) (F93)
- ENGL 174 Intro Mod Asian Lit (3) (S05)
- ENGL 175 Introduction to Women's Literature (3)
- ENGL 176 Intro to Mexican Lit (3) (F04)
- ENGL 179 Intro Ntv Amer Lit, Myth & Oral Trd (3) (F95)
- FOREIGN LANGUAGE numbered 101, 102, 103, 104 (5)
- HIST 104^A Western Civil. to the 1650 (3)(F10)
- HIST 105^A Western Civil. since 1650 (3)(F10)
- HIST 106^A World Civil. to the 16th Century (3)(S07)
- HIST 107^A World Civil. from the 16th Century (3)(F10)
- HUMAN 101 Intro to the Humanities (3)
- HUMAN 105 Early Humanistic Trad (3) (F89)
- HUMAN 106 Humanities in the Modern World (3) (F89)
- HUMAN 110 East Meets West (3) (F87)
- HUMAN 130 Introduction to Western Religions (3) (F03)
- HUMAN 140 Intro to World Mythologies (3) (S06)
- PHILO 101 Philosophy (3)
- PHILO 111 Ethics: Theory & Appl (3)
- PHILO 113 Philosophy of Art (3)(Su08)
- PHILO 115 Religion: A Phil. & Comparative Inquiry (3)
- PHILO 120 Hist of Philo: Ancient (3)
- PHILO 121 Hist of Philo: Modern (3)
- PHILO 123 20th Century Philosophy (3) (F02)
- PHILO 135 Environmental Ethics (3)(F08)
- PHILO 140 Philosophy & Film (3) (F93)
- SIGN 125 ASL - Beginning (3) (F95)
- SIGN 126 ASL - Intermediate (3)(F95)
- SIGN 127 ASL - Advanced (3) (F95)
- SPAN 109 Span. for Span. Spkrs 1 (5) (SU07)
- SPAN 110 Span. for Span. Spkrs 2 (5) (S07)
- SPAN 112 Intro to Chicano/a Lit (3) (F90)
- SPAN 173 Survey of Latin American Lit (3) (S06)
- THETR 150^A Elem of Playwriting (3) (F94)

**AREA D
Social Sciences**

Nine (9) units from at least two subareas (D.0-D.9). Courses marked with ^A may be used in one area only.

D.0 SOCIOLOGY AND CRIMINOLOGY

- ADJU 203 Concepts of Criminal Law (3)(F11)
- SOCIO 101 Intro to Sociology (3)
- SOCIO 102 Social Problems in US (3) (F01)
- SOCIO 125 Sociology of the Family (3)
- SOCIO 150^A Ethnic & Culture in Am (3)
- SOCIO 154^A Afr. Amer. Citrs. & Comnt.(3)
- SOCIO 156^A Mexican Culture in the US(3)

D.1 ANTHROPOLOGY & ARCHAEOLOGY

- ANTHR 101^A Physical Anthropology (3) (F90)
- ANTHR 102 Cultural Anthropology (3)
- ANTHR 104^A Linguistic Anthropology (3)(SU07)

- ANTHR 130 Arch and Cultural Prehist (3)
- ANTHR 140 Magic, Witch & Relig (3) (F97)
- ANTHR 150^A Native People of N. Amer (3)

D.2 ECONOMICS

- AGEC 210 Elem of Ag Econ (3)(F98)
- ECON 101 Principles of Macroeconomics (3)
- ECON 102 Principles of Microeconomics (3)
- ECON 115^A Econ Hist of the US (3)
- GEOG 105^A Economic Geog (3) (F00)
- HIST 115^A Econ Hist of the US (3)

D.3 ETHNIC STUDIES

- ANTHR 150^A Native People of N. Amer (3)(F11)
- HIST 113^A Social Cult Hist of the US Prior to the 20th Cent (3)(F10)
- HIST 119^A Social & Cult Hist of the 20th Century Amer (3)(F10)
- HIST 128^A Hist. of the American Far Western Frontier (3)(F10)
- HIST 154^A Afr. Amer thru 19th Century(3)(F95)
- HIST 155^A Afr. Amer in 20th/21st Cents. (3)(F99)
- SOCIO 150^A Ethnicity and Culture in America (3)
- SOCIO 154^A Afr- Amer Culture & Communities (3)
- SOCIO 156^A Mex Culture in the US (3)
- SPCOM 130^A Intercultural Communication (3)(F02)

D.4 GENDER STUDIES

- HIST 116^A Women in American History (3)(F10)
- PSYCH 111^A Psychology of Gender (3) (S07)
- SOCSC 105 Women's Studies (3) (F01)

D.5 GEOGRAPHY

- GEOG 102 Cultural Geography (3)
- GEOG 104 California Geography (3)(F08)
- GEOG 105^A Economic Geography (3)(F00)
- GEOG 110 World Regional Geography(3)(F97)

D.6 HISTORY

- ECON 115^A Econ Hist of the US (3)
- HIST 101 History of US to 1877 (3)
- HIST 102 History of the US since 1865 (3)
- HIST 104^A Western Civilization to 1650 (3)
- HIST 105^A Western Civilization Since 1650 (3)
- HIST 106^A World Civ. to the 16th Century (3) (F02)
- HIST 107^A World Civ. from the 16th Century (3) (F02)
- HIST 112 Twentieth Century Amer (3)
- HIST 113^A Soc & Cult Hist of US Prior to 20th Cent(3)
- HIST 115^A Econ History of the US(3)
- HIST 116^A Women in Amer History (3)
- HIST 119^A Soc & Cult Hist 20th Cent Amer (3) (F00)
- HIST 125 History of Mexico (3)
- HIST 128^A Hist of Amer Far Western Frontier (3)(F94)
- HIST 129 History of California (3)
- HIST 145 History of Latin Amer (3)
- HIST 154^A Hist Afr. Amer. thru 19th Cent (3) (F95)
- HIST 155^A Afr. Amer. in 20th/21st Cent (3)(F99)

D.7 INTERDISCIPLINARY SOCIAL OR BEHAVIOR SCIENCE

- AGGE 146 Ag, Envir & Soc. (3) (F97)
- CLDDV 103^A Child Growth & Development (3)(F09)
- CLDDV 104^A&105^A Child Grwth/Dev't (complete sequence)(2-2)(F10)
- CLDDV 262 Diversity in Educ. Settings (3)(F08)
- ENSCI 110 Calif Water (3) (F98)
- FAMLF 131^A Family Relationships (3)(S07)
- SPCOM 103 Interpersonal Communication(3)(F08)
- SPCOM 130^A Intercultural Communication (3)(F97)

D.8 POLITICAL SCIENCE, GOVERNMENT AND LEGAL INSTITUTIONS

- ADJU 201 Intro to Administration of Justice (3)(F11)
- PHILO 130 Political Theory (3)
- POLSC 101 American Politics(3)
- POLSC 102 The Const & the Rights of Americans (3)
- POLSC 110 International Relations (3)
- POLSC 111 War & Peace: From Lenin to Al Qaeda (3)
- POLSC 120 Calif Politics & Problems(3)

D.8 POLITICAL SCIENCE, GOVERNMENT AND LEGAL INSTITUTIONS

- POLSC 130 Political Theory (3)
- POLSC 131 American Political Thought (3) (S07)
- POLSC 140 Comparative Politics (3)

D.9 PSYCHOLOGY

- PSYCH 101 General Psychology (3)
- PSYCH 104 Social Psychology (3)(F91)
- PSYCH 105 Abnormal Psychology (3) (S07)
- PSYCH 111^A Psychology of Gender (3) (S07)

**AREA E:
Lifelong Understanding and
Self-Development**

Complete one course from the following list.

- CLDDV 103^A Child Growth/Development (3) (F07)
- CLDDV104^A&105^A Child Grwth/Dev't (complete sequence)(2-2)(F07)
- COLSK 100 Found for 1st Yr College Success (3)(Su11)
- FAMLF 131^A Family Relationships (3)
- HE 110 Healthful Living (3)
- HE 111 Women's Health Issues (3)
- PSYCH 104 Social Psychology (3)
- PSYCH 110 Human Sexualities (3)
- PSYCH 130 Personal Adjustment (3)
- PSYCH 141 Human Lifespan (3)

Total Units required for General Education: 39

**CSU US History, Constitution and
American Ideals**

Six (6) units are needed to complete the US History & Government requirement for the BA/BS degree. Three (3) units from **Group a** and three (3) units from **Group b** or six (6) units from **Group c**. Six (6) units may also be counted toward **Area D**.

Group a.

- ECON115 Econ Hist of US (3) (F04)
- HIST 101 Hist. of US to 1877 (3)(F04)
- HIST 102 History of the US since 1865 (3)
- HIST 112 Twentieth Cent. America(3) (F04)
- HIST 113 Soc & Cult Hist US Prior to 20th Cent (3)(F04)
- HIST 115 Econ Hist of US (3) (F04)
- HIST 116 Women in Amer History (3) (F04)
- HIST 119 Soc & Cult Hist 20th Cent Amer (3) (F04)
- HIST 154 Hist of Afr Amer thru 19th Cent (3) (F04)
- HIST 155 Hist Afr Amer 20th/21st Centuries(3) (F04)

Group b.

- POLSC 101 American Politics (3) (F04)
- POLSC 102 The Const. & Rights of Americans (3)(F04)
- POLSC 120 Calif Politics & Prob (3) (F04)

OR

Group c.

- HIST 101 Hist of the US to 1877(3)(F04)
- HIST 102 History of the US since 1865 (3) (F04)

PROGRAMS

Administration of Justice PROGRAM

A.A. Degree: Administration of Justice

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate of Arts Degree in Administration of Justice will be able to:

1. The student will be able to discuss the roots of the American legal system and how it applies to today's criminal justice profession, including ethical dilemmas confronting today's society.
2. The student will be able to create narrative reports, develop note taking skills, create visual simulations and develop interview techniques.
3. The student will describe the value of diversity and its inclusion rather than exclusion into the criminal justice system.
4. The student will be able to select a topic and be able to solve a social / criminal justice issue.

A.S. Degree: Administration of Justice

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate of Science Degree in Administration of Justice will be able to:

1. The student will be able to discuss the roots of the American legal system and how it applies to today's criminal justice profession, including ethical dilemmas confronting today's society.
2. The student will be able to create narrative reports, develop note taking skills, create visual simulations and develop interview techniques.
3. The student will describe the value of diversity and its inclusion rather than exclusion into the criminal justice system.
4. The student will be able to select a topic and be able to solve a social / criminal justice issue.

Skills Recognition Award: Supervisory Management in Public Safety

1. The student will be able to discuss management, supervision and human resources as it relates to today's criminal justice profession.
2. The student will be able to analyze ethical dilemmas confronting law enforcement.
3. The student will describe the value of diversity and its inclusion rather than exclusion into the criminal justice system.
4. The student will be able to select a topic and be able to solve a social / criminal justice issue.

Accounting PROGRAM

Certificate of Achievement: Accounting Clerk

Upon the successful completion of the Certificate of Achievement in Accounting Clerk at Modesto Junior College, students will be able to:

1. Prepare basic financial statements
2. Demonstrate the ability to perform general office procedures
3. Utilize technology to perform general office and bookkeeping procedures

Art and Design PROGRAM

A.A. Degree: University Preparation, Emphasis in Art and Design

In addition to demonstrating the abilities associated with the University Preparation Pathway requirements, students who complete the Associate's Degree Emphasis in Art and Design will be able to:

1. Demonstrate preparedness to successfully continue studies in art at an upper division level.
2. Reproduce, render, and interpret in a variety of media through observation.
3. Plan, design, and produce original works of art.
4. Make informed assessments of quality and effectiveness in works of art, including their own.
5. Identify and distinguish various historical periods of art.

Chemical Dependency Counseling PROGRAM

A.A. Degree: Chemical Dependency Counseling

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate's Degree in Chemical Dependency Counseling will be able to:

1. Demonstrate an understanding of chemical dependency, family systems, and the application of the code of ethics as it relates to chemical dependency counseling.
2. Exhibit effective, communication, body language, and written abilities.
3. Demonstrate an understanding of addiction, biology, psychoactive substances, co-occurring disorders, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.
4. Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.
5. Conduct a basic assessment, interview, intervention, referral, individual counseling, and group session with individuals that are chemically dependent.

Child Development PROGRAM

Certificate of Achievement: Master Teacher

Upon the successful completion of the Certificate of Achievement in Master Teacher at Modesto Junior College, students will be able to:

1. Recognize and describe the courses totaling 32 units necessary to complete this certificate and compare/contrast how the certificate is aligned with the Master Teacher Permit issued through State of California, Commission on Teacher Credentialing.
2. Apply specialized knowledge of courses from the six-unit option in the early care and education classroom (i.e. infant/toddler; early intervention; families and culture.)
3. Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence as the lead teacher in the classroom.
4. Demonstrate an awareness and understanding of the diverse cultural aspects of child rearing and family practices and potential cultural conflicts as individuals interact.

Certificate of Achievement: Site Supervisor

Upon the successful completion of the Certificate of Achievement in Site Supervisor at Modesto Junior College, students will be able to:

1. Recognize and describe the courses totaling 32 units necessary to complete this certificate and compare/contrast how the certificate is aligned with the Site Supervisor Permit issued through State of California, Commission on Teacher Credentialing.
2. Train teaching staff to develop high quality and developmentally appropriate strategies that promote partnerships between programs, teachers, families and their communities as the supervisor of the program.
3. Train teaching staff to apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education profession as a supervisor of a program.
4. Demonstrate an awareness and understanding of the diverse cultural aspects of child rearing and family practices and potential cultural conflicts as individuals interact.

Certificate of Achievement: Associate Teacher

Upon the successful completion of the Certificate of Achievement in Associate Teacher at Modesto Junior College, students will be able to:

1. Recognize and describe the four courses necessary to complete this certificate and compare/contrast how the certificate is aligned with the Associate Teacher Permit issued through State of California, Commission on Teacher Credentialing.
2. Integrate a basic understanding of the needs, the characteristics and multiple influences on development of children birth to age eighth as related to high quality care and education of young children as assistant in the classroom.
3. Demonstrate a basic knowledge and understanding of the relationship between appropriate play, and effective guidance as demonstrated in adult-child interactions and learning opportunities for young children.

Certificate of Achievement: Early Interventionist

Upon the successful completion of the Certificate of Achievement in Early Interventionist at Modesto Junior College, students will be able to:

1. Recognize and describe the courses totaling 32 units necessary to complete this certificate and recognize how the certificate qualifies a student to work at the Early Intervention Assistant II level of the California Early Start Personnel Model.
2. Develop considerations for meeting exceptional needs, including teacher/early interventionist competencies, intervention, instructional strategies, and parent involvement in the context of cultural diversity.
3. Describe the natural environment and inclusion for infants and young children with disabilities in and the connection to family systems and the family need for education and support.
4. Demonstrate knowledge of the legal and ethical responsibilities, including confidentiality related to assessment in early childhood settings including legislation regarding IFSP, IEP, and development.

Computer Applications Specialist PROGRAM

Certificate of Achievement: Computer Applications Specialist

Upon the successful completion of the Certificate of Achievement in Computer Application Specialist at Modesto Junior College, students will be able to:

1. Apply basic computer hardware, software and information technology concepts and techniques to a variety of business environments.
2. Demonstrate proficiency in applying common business productivity software to business functions, including word processing, spreadsheets, database, and presentation applications.
3. Identify software to be used to address specific business needs.
4. Demonstrate professional and effective communication skills.

Computer Information Systems PROGRAM

A.A. Degree:

Computer Information Systems

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate of Arts degree in Computer Information Systems will be able to:

1. *Demonstrate preparedness to successfully continue studies in computer information systems at an upper division level.*
2. *Demonstrate the techniques of information analysis and application design and implementation for information technology industries.*
3. *Demonstrate a high level of data organization techniques for information storage and retrieval processes.*
4. *Use these techniques to model real-world applications.*
5. *Demonstrate a high level of communication skills.*

Computer Network Administration PROGRAM

Certificate of Achievement:

Computer Network Administration

Upon the successful completion of the Certificate of Achievement in Computer Network Administration at Modesto Junior College, students will be able to:

1. *Demonstrate a firm understanding and working knowledge of basic network topologies, client and server operating system configuration, network security principals, and directory services.*
2. *Be prepared to obtain employment in an entry-level position assisting in network design and implementation.*
3. *Design, implement and document a client/server network complete with security policy and a disaster recovery plan for a small-business network.*
4. *Demonstrate professional and effective communication skills.*

Computer Network Technician PROGRAM

Certificate of Achievement:

Computer Network Technician

Upon the successful completion of the Certificate of Achievement in Computer Network Technician at Modesto Junior College, students will be able to:

1. *Demonstrate a firm understanding and working knowledge of basic network troubleshooting techniques.*
2. *Be prepared to obtain employment in an entry-level position as a network technician and help-desk support tech.*
3. *Install, configure, upgrade and maintain personal computer hardware and operating systems.*
4. *Install, configure, and troubleshoot basic networking hardware and protocols.*
5. *Provide support for users of operating systems, applications and computer information systems.*
6. *Demonstrate professional and effective communication skills.*

Computer Programming Specialist PROGRAM

Certificate of Achievement:

Computer Programming Specialist

Upon the successful completion of the Certificate of Achievement in Computer Programming Specialist at Modesto Junior College, students will be able to:

1. *Demonstrate a firm understanding and working knowledge of basic problem analysis, design, implementation, and maintenance.*
2. *Be prepared to obtain employment in an entry-level position in software engineering.*
3. *Employ industry-accepted coding practices and standards.*
4. *Implement object oriented software solutions.*
5. *Employ various code level debugging techniques.*
6. *Utilize software development tools.*
7. *Perform functional software testing.*
8. *Demonstrate professional and effective communication skills.*

Computer Science PROGRAM

A.A. Degree: **Computer Science**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate of Arts degree in Computer Science will be able to:

1. *Demonstrate preparedness to successfully continue studies in computer science at an upper division level.*
2. *Demonstrate the techniques of problem solving and programming computer based software development.*
3. *Demonstrate a high level of mathematical reasoning and scientific methodology.*
4. *Use these techniques to model real-world applications*
5. *Demonstrate a high level of communication skills.*

A.S. Degree: **Computer Science**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate of Science degree in Computer Science will be able to:

1. *Demonstrate preparedness to successfully enter local industry as a software programmer, network specialist, or information systems specialist depending of degree option completed.*
2. *Configure and use computer hardware and software to solve most entry level business application requirements.*
3. *Plan, design, and implement solutions to standard computing problems.*
4. *Make informed assessments of the quality and effectiveness software implementations, including their own.*
5. *Assist and help provide training to employees in local area businesses.*
6. *Demonstrate a high level of communication skills.*

Emergency Medical Technician PROGRAM

Skills Recognition: **Emergency Medical Technician**

Students who complete the Skills Recognition Award for Emergency Medical Technician will be able to:

1. *Pass the National Registry Exam for certification as an Emergency Medical Technician I.*
2. *Demonstrate compliance with regulations of the National Registry of Emergency Medical Technicians.*

Environmental Sciences PROGRAM

A.S. Degree: **University Preparation, Emphasis in Environmental Sciences**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the A.S. Degree in University Preparation, Environment Sciences will be able to:

1. *Apply the scientific methods of discovery to problem solving situations in biology, mathematics, and chemistry.*
2. *Proficiently use the scientific vocabulary, including the key terms and concepts in biology, chemistry, and mathematics.*

Ethnic Studies PROGRAM

Skills Recognition: **Ethnic Studies**

Students who complete the Skills Recognition Award for Ethnic Studies will be able to:

1. *Understand how race and ethnic relations have been shaped by economic, social, cultural and political realities.*
2. *Demonstrate familiarity with various methodological approaches to the terrains of race and ethnicity, especially in their relation to identity, inequality, culture and history.*

Fire Academy PROGRAM

Skills Recognition: **Fire Academy**

Students who complete the Fire Academy Skills Recognition Award will be able to:

1. *Demonstrate compliance with state Fire Training Requirements for Firefighter I.*
2. *Demonstrate compliance with National Fire Protection Association Standards.*

Fire Science PROGRAM

Certificate of Achievement: **Fire Science**

Students who complete the Certificate of Achievement in Fire Science will be able to:

1. Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.
2. Demonstrate compliance with California State Fire Training Standards for Firefighter I.
3. Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.
4. Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.
5. Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.
6. Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.

A.S. Degree: **Fire Science**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the A.S. Degree in Fire Science will be able to:

1. Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.
2. Demonstrate compliance with California State Fire Training Standards for Firefighter I.
3. Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.
4. Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.
5. Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.
6. Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.

Food Processing PROGRAM

Certificate of Achievement: **Food Processing**

Students who earn certificate of Achievement in Food Processing will be able to:

1. Demonstrate mastery of the technical and soft skills needed for successful employment in the food processing industry
2. Demonstrate proficiency in agriculture sciences/engineering by employing the scientific methods to solve agricultural problems.
3. Employ safe work habits as prescribed in the injury illness Prevention Plan (IIPP) for the food processing industry.
4. Apply the principles of basic food processing industry and laboratory procedures to analyze processed food quality and safety

A.S. Degree: **Food Processing**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the A.S. Degree in Food Processing will be able to:

1. Demonstrate mastery of the technical and soft skills needed for successful employment in the food processing industry.
2. Demonstrate proficiency in agriculture sciences/engineering by employing the scientific method to solve agricultural problems.
3. Employ safe work habits as prescribed in the Injury Illness Prevention Plan (IIPP) for the food processing industry.
4. Apply the principles of basic food processing industry and laboratory procedures to analyze processed food quality and safety.

Geography PROGRAM

A.S. Degree: **University Preparation, Emphasis in Geography**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate's Degree in Geography will be able to:

1. Describe and demonstrate the methodology and approach used in geographical study
2. Describe and select examples from maps to validate geographical processes and relationships
3. Critically examine geographic locations based upon physical, cultural, historical, political and economic factors

General Studies PROGRAM

A.A. Degree: **General Studies, Emphasis in Humanities**

In addition to demonstrating the abilities associated with the General Education requirements, students who complete the Associate's Degree in General Studies with an Emphasis in Humanities will be able to:

1. Describe how the performing and visual arts, literature, languages and the social sciences have influenced societies in various times.
2. Analyze ways in which the performing and visual arts, literature, languages and the social sciences allow for individuals and social groups to form creative and critical responses to their societies and environment.
3. Demonstrate awareness of the various ways that the performing and visual arts, literature, languages and the social sciences provide creative and critical venues for expressing how culture, ethics, history, belief, and ethnicity affect individual experience and society as a whole.
4. Demonstrate the ability to interpret and analyze the performing and visual arts, literature, languages and the social sciences for meaning and to forge aesthetic, moral, social, political and historical judgments.
5. Demonstrate critical thinking in the analysis of artistic, literary, linguistic and academic knowledge production using both thematic and historical synthesis.

A.A. Degree: **General Studies, Emphasis in Language and Rationality**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the A.A. Degree in General Studies, Emphasis in Language and Rationality will be able to:

1. Demonstrate awareness of the interactive nature of communication involving effective listening, reading, writing, and speaking.
2. Demonstrate critical thinking in the analysis and production of communication.
3. Demonstrate the ability to find, evaluate, and use information in a variety of formats.

A.A. Degree: **General Studies, Emphasis in Social & Behavioral Science**

In addition to demonstrating the abilities associated with the University Preparation Pathway requirements, students who complete the Associate's Degree Emphasis in Social & Behavioral Science will be able to:

1. Describe and demonstrate the methodology and approach employed in the study of Behavioral and Social Sciences
2. Critically examine local, national, and global issues as they pertain to the study of Behavioral and Social Sciences

Health & Physical Education PROGRAM

A.S. Degree: **University Preparation, Emphasis in Health and Physical Education**

In addition to demonstrating the abilities associated with the University Preparation Pathway requirements, students who complete the Associate's Degree Emphasis in Health and Physical Education will be able to:

1. Demonstrate a working knowledge of the anatomy, physiology, and microbiology of the human body in order to enter the nursing program.
2. Succeed on the nursing board exams in sections related to these disciplines.

Human Services PROGRAM

Certificate of Achievement: **Human Services**

Students who earn a Certificate of Achievement in Human Services will be able to:

1. Demonstrate an understanding of the Human Services, delivery systems, and application of the code of ethics as it relates to the Human Service profession.
2. Exhibit effective, communication, body language, and written abilities.
3. Demonstrate an understanding of theoretical orientations, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.
4. Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.
5. Conduct an elementary assessment, interview, intervention, referral, individual counseling, and group session.

A.A. Degree: **Human Services**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate's Degree in Human Services will be able to:

1. Demonstrate an understanding of the Human Services, delivery systems, and application of the code of ethics as it relates to the Human Service profession.
2. Exhibit effective, communication, body language, and written abilities.
3. Demonstrate an understanding of theoretical orientations, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.
4. Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.
5. Conduct an elementary assessment, interview, intervention, referral, individual counseling, and group session.

Humanities PROGRAM

A.A. Degree: **University Preparation, Emphasis in Humanities**

In addition to demonstrating the abilities associated with the University Preparation Pathway requirements, students who complete the Associate's Degree Emphasis in Humanities will be able to:

1. Describe how cultural beliefs, values and practices have influenced societies in various times.
2. Analyze the ways that individuals and various cultural groups act in response to their societies and environment.
3. Demonstrate awareness of the various ways that culture, ethics, history, belief, and ethnicity affect individual experience and society as a whole.
4. Demonstrate the ability to interpret and analyze works of art for meaning and to forge aesthetic judgments.
5. Demonstrate critical thinking in the analysis of cultural production using both thematic and historical synthesis.

Language Studies PROGRAM

A.A. Degree: **University Preparation, Emphasis in Language Studies**

In addition to demonstrating the abilities associated with the University Preparation Pathway requirements, students who complete the Associate's Degree Emphasis in Language Studies will be able to:

1. Converse in at least two languages.
2. Communicate in writing in at least two languages.
3. Read critically, interpret analytically, and write coherently in at least two languages.
4. Understand and demonstrate appreciation of cultural differences.

Liberal Studies PROGRAM

A.A. Degree: **University Preparation, Emphasis in Liberal Studies**

In addition to demonstrating the abilities associated with the University Preparation Pathway requirements, students who complete the Associate's Degree Emphasis in Liberal Studies will be able to:

1. Demonstrate competence in the fields of study central to the California state standards for the sciences, mathematics, visual and performing arts, the social sciences, and language and literature.
2. Define and explain the fundamental concepts of educational pedagogy including motivational theories, learning styles, and curriculum development through reflections on their coursework and classroom observations.

Mechanized Agriculture PROGRAM

Certificate of Achievement: **Mechanized Agriculture Technician**

Students who earn a Certificate of Achievement in Mechanized Agriculture Technician will be able to:

1. Describe the various employment opportunities available within the mechanized agriculture field and demonstrate the minimum educational requirements for entrance into each.
2. Locate, read, and interpret appropriate plans, manuals and equipment documentation in order to fabricate and/or repair equipment effectively.
3. Select proper tools and equipment for various applications, staying within the desired financial restraints.
4. Maintain tools and equipment and demonstrate the value of preventative maintenance and proper equipment usage.
5. Demonstrate and relate the use of skills developed across various general education disciplines (ex. English, math, physics etc.) to help solve problems within the mechanized agriculture field.

Nursing: Nurse Assistant PROGRAM (CNA)

Skills Recognition: **Nurse Assistant**

Students who complete the Skills Recognition Award for Nurse Assistant will be able to:

1. Provide competent resident care based on the skill set of a certified nurse assistant (CNA).
2. Complete the required hours for theory and clinical as set by the state of California.
3. Provide compassionate end of life care
4. Communicate professionally with residents, families, peers and profession staff.
5. Pass the state of California certification examination as a Certified Nurse Assistant (CNA).

Nursing: Associate Degree Nursing PROGRAM (RN)

A.S. Degree: **Nursing**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate's Degree in Nursing will be able to:

1. Provide competent nursing care based on scientific principles, the Roy Adaptation Model, and the nursing process, reflecting an ethic of caring evidenced by respect for patients and families, self, colleagues, and the profession.
2. Identify a nursing diagnosis following assessment of the patient's physical condition and behavior, an analysis of information obtained from the patient and others, including members of the health care team.
3. Formulate a care plan, in collaboration with the patient that ensures direct and indirect nursing care services that provide for the following patient needs: safety, comfort, hygiene, protection, disease prevention, and restorative measures.
4. As provider and manager of care, establish priorities, perform the skills required to carry out nursing interventions, explain the plan of care to the patient and family, and teach the patient and family how to care for identified health problems and needs.
5. Manage and prioritize care for groups of patients; delegate tasks to subordinates based on the legal scope of practice of the subordinates and on the preparation and competence needed for the tasks to be delegated; and effectively supervise the nursing care provided by subordinates.

6. Evaluate the effectiveness of the care plan through observation of the patient's condition and behavior, signs and symptoms of illness, reactions to treatment, and thorough communication with the patient and the health care team; and modify the plan as needed.
7. Advocate for the rights of patients by initiating actions to improve health care, facilitate changes in decisions or activities that conflict with patients' self-determination, and provide patients the opportunity to make informed decisions about their health care.
8. Recognize that each person is a unique individual with biological, psychological, social, and spiritual needs; understand how a person's self-concept, role function, and interdependence are affected by the values, attitudes, life experiences, culture, ethnicity, and support systems of each person.

Nursing: LVN to ADN (RN) Advanced Placement PATHWAY

A.S. Degree: Nursing/LVN to ADN Advanced Placement Pathway

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Nursing/LVN to AND Advanced Placement Pathway will be able to:

1. Provide competent nursing care based on scientific principles, the Roy Adaptation Model, and the nursing process, reflecting an ethic of caring evidenced by respect for patients and families, self, colleagues, and the profession.
2. Identify a nursing diagnosis following assessment of the patient's physical condition and behavior, an analysis of information obtained from the patient and others, including members of the health care team.
3. Formulate a care plan, in collaboration with the patient that ensures direct and indirect nursing care services that provide for the following patient needs: safety, comfort, hygiene, protection, disease prevention, and restorative measures.
4. As provider and manager of care, establish priorities, perform the skills required to carry out nursing interventions, explain the plan of care to the patient and family, and teach the patient and family how to care for identified health problems and needs.
5. Manage and prioritize care for groups of patients; delegate tasks to subordinates based on the legal scope of practice of the subordinates and on the preparation and competence needed for the tasks to be delegated; and effectively supervise the nursing care provided by subordinates.
6. Evaluate the effectiveness of the care plan through observation of the patient's condition and behavior, signs and symptoms of illness, reactions to treatment, and thorough communication with the patient and the health care team; and modify the plan as needed.
7. Advocate for the rights of patients by initiating actions to improve health care, facilitate changes in decisions or activities that conflict with patients' self-determination, and provide patients the opportunity to make informed decisions about their health care.
8. Recognize that each person is a unique individual with biological, psychological, social, and spiritual needs; understand how a person's self-concept, role function, and interdependence are affected by the values, attitudes, life experiences, culture, ethnicity, and support systems of each person.

Physical Education PROGRAM

A.A. Degree: Physical Education

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the Associate's Degree in Physical Education will be able to:

1. Use effective written, electronic, and verbal communication techniques that demonstrate proficient research skills regarding physical activity, a clear, coherent writing style regarding physical activity, and proficient oral expression regarding physical activity.
2. Demonstrate competence in the major concepts and current research dealing with physical fitness and sports, demonstrating knowledge of major concepts regarding physical activity and demonstrating knowledge of journals, periodicals, and other sources of information regarding current research and sports strategies.
3. Apply critical thinking to utilize protocols regarding the safe design and monitoring of various parameters of physical activity, demonstrating the ability to properly select, attend, and design safe activities and demonstrating knowledge of evaluation, care, and prevention of sports injuries.
4. Synthesize the personal and socio-cultural aspects of sport and physical activity, demonstrating the ability to analyze and interpret trends found in sport as a microcosm of society and demonstrating knowledge of proper psychological process in sport performance and motor learning sequences found in skill development.
5. Identify and apply basic rules and strategies of various physical activities.

Psychosocial Rehabilitation PROGRAM

Skills Recognition: Psychosocial Rehabilitation

Students who earn a Skills Recognition Award in Psychosocial Rehabilitation will be able to:

1. Demonstrate an understanding of psychosocial rehabilitation, family systems, and historical perspectives as it relates to the public mental health movement.
2. Exhibit effective, communication, body language, and written abilities with consumers or families.
3. Demonstrate an understanding of theoretical philosophies, biology, co-occurring disorders, environmental or psychosocial stressors, and the relation to psychosocial rehabilitation practice.
4. Comprehend the impact of stigma, culture, and various practice models in psychosocial rehabilitation.
5. Conduct a basic assessment, interview, intervention, referral, individual counseling, and group session with individuals that are mentally ill.

Recording Arts PROGRAM

Skills Recognition Award: **Recording Arts**

Students who complete the requirements for the Skills Recognition Award in Recording Arts will be able to:

1. Demonstrate effective use of current music technology as applied to recording and music production.
2. Record, mix and master an acoustic music group with multiple tracks and microphones, burn the work to a CD and present the work as a complete project.
3. Demonstrate the ability to select and correctly place microphones for sound capture.
4. Identify elements of sound and acoustics.
5. Create an electronic music composition using music technology and basic music compositional skills.
6. Demonstrate the ability to make a live recording of a musical group or large ensemble.
7. Summarize the evolution of American popular music genres.

Speech Communication PROGRAM

Skills Recognition: **Speech Communication**

Upon successful completion of the Skills Recognition in Speech Communication, students will be able to:

1. Construct a speech outline demonstrating clarity of ideas, proper source citation, awareness of audience, and proper outlining techniques.
2. Identify and apply principles of interpersonal communication theory to build functional relationships.
3. Find, evaluate, and incorporate research materials into written and oral argumentation, as well as cite sources correctly.

Theatre PROGRAM

Skills Recognition Award: **Design and Technical Theatre**

Students who complete the requirements for the Skills Recognition Award in Design and Technical Theatre will be able to:

1. Describe how theatre artists collaborate in order to create a theatrical production.
2. Analyze a script in terms of themes, place, time period, style, plot, genre and mood as applied to scenery, costume and lighting planning and design.
3. Demonstrate how to safely use common lighting instruments and accessories in the course of lighting a dance concert or play.
4. Demonstrate the ability to draw a basic makeup design for a face.
5. Demonstrate knowledge of stage and shop safety rules and safe working practices in an applied situation.
6. Demonstrate the ability to organize the necessary paperwork and schedule to prepare and run rehearsals and performances.

Skills Recognition Award: **Theatre Performance**

Students who complete the requirements for the Skills Recognition Award in Theatre Performance will be able to:

1. Solve memorization and other problems of scene preparation.
2. Employ advanced acting techniques for character development, physical and vocal warm ups and performance preparation.
3. Analyze a script verbally and/or in writing in terms of theme, character and motivational units.
4. Demonstrate the ability to improve a performance after receiving a critique from a director.
5. Properly cut and edit performance material from larger works.

Physics PROGRAM

A.S. Degree: University Preparation, **Emphasis in Physics**

In addition to demonstrating the abilities listed as General Education Student Learning Outcomes, students who complete the A.S. Degree in University Preparation Physics, the student will be prepared to: . . .

1. Use the Scientific Method to collect and analyze data in forming conclusions and to verify physical principles through and experimentation.
2. Solve problems and predict outcomes in nature using physical laws.
3. State and apply physical concepts to explain phenomena encountered in our everyday world.

Welding PROGRAM

Skills Recognition: **Sheet Metal Fabricator**

1. Comply with current welding industry safety and environmental regulations.
2. Perform sheet metal fitting and welding operations in accordance to industry recognized and accepted practices.

COURSES

The new following courses were adopted effective for the 2012-2013 academic year.

AUTEC (Automotive Technology)

AUTEC 211—INTRODUCTION TO ALTERNATIVE FUELS AND ADVANCED TECHNOLOGY VEHICLES 3 UNITS

27.00 Lecture Hours, 81.00 Lab hours,

Prerequisite: Satisfactory completion of AUTEC 368.

Introduction to the technology of alternative fuel vehicles including, fuel cell, compressed natural gas, liquid natural gas, propane, hydrogen, ethanol, biodiesel, electric, hybrids, and methanol. Student may repeat if required by regulation. Field trips are required. (A-F Only) **Transfer:** (CSU)

MACH (Machine Tool Technology)

MACH 357—MACHINE TRADES PRINT READING 2 UNITS

36.00 Lecture hours

Recommended for Success: Before enrolling in this course, students are strongly advised to have a basic working knowledge of personal computers and have the ability to add, subtract, multiply, and divide numbers and have a working knowledge of the English language as applied to manufacturing processes.

Interpretation of two-dimensional mechanical prints encountered in the machining of parts. Applicable for machinist, maintenance personnel, and machine operators needing familiarization with the terminology, symbols, and practices used in the manufacturing environment. Field trips are not required. (A-F or P/NP)

PEC (Physical Education: Competitive)

PEC 127—BALLET 2 1 UNIT

Also offered as: THETR - 177

54.00 Lab hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete PEC 133 or THETR 189.

Intermediate level ballet technique and terminology. Students are required to have appropriate dance shoes and dance attire. Four completions allowed. Field trips might be required. (A-F or P/NP)

THETR (Theatre)

THETR 105—INTRODUCTION TO STAGECRAFT 3 UNITS

45.00 Lecture Hours, 27.00 Lab hours,

An introduction to technical theatre and the creation of scenic elements. Includes basic concepts of design, painting techniques, set construction, set movement, prop construction, backstage organization, and career possibilities. May include stage management, lighting, and/or sound techniques. Lecture, reading, projects, and practical experiences. Field trips are not required. (A-F or P/NP) **Transfer:** (CSU, UC) **Graduation:** (MJC: Activities) NP) **Transfer:** (CSU, UC) **Graduation:** (MJC: Activities)

THETR 174—STAGE MAKEUP 3 UNITS

45.00 Lecture Hours, 27.00 Lab Hours,

Instruction and practice in a lecture/laboratory setting in all phases of makeup specifically designed for theatrical use. Materials fee required. Four completions allowed. Field trips are not required. (A-F or P/NP) **Transfer:** (CSU, UC) **Graduation:** (MJC: Activities)

THETR 129—JAZZ 2 1 UNITS

Also offered as: PEC - 129

54.00 Lab hours

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete THETR 188 or PEC 126.

Intermediate technique of Jazz Dance with explorations into contemporary derivations of jazz. Emphasis on technical style of the form and the interrelationship of music and movement. Four completions allowed. Field trips are not required. (A-F or P/NP) **Transfer:** (CSU, UC) **Graduation:** (MJC: Activities)