



**MADERA**  
COMMUNITY  
COLLEGE

**2025-2026**

**CATALOG ADDENDUM**

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# Course Description Information

*Effective Fall 2025*

*(Pages from 126- 129 of the 2025-2026 catalog)*

## **DELETED COURSES**

COUNS-3A

COUNS-47

COUN-263

COUN-264

COUN-281

ENGL-132

ENGL-272

ETHNST-17

MATH-11C

## **DELETED PROGRAMS**

IGETC-CSU (M.5900.CA)

IGETC-UC (M.5901.CA)

CSU-GE M.5800.CA

# Course Descriptions

*Effective Fall 2025*

*(Pages from 130 – 220 of the 2025-2026 catalog)*

## NEW COURSES

### ADDICTION STUDIES (ADS)

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#### 6 FAMILY DYNAMICS OF ADDICTION

**3 units, 3 lecture hours, pass/no pass**

PREREQUISITES: ADS-1. ADVISORIES: ADS-2, ADS-3, ADS-7 and ENGL-C1000 or ENGL-C1000H.

This course is designed to explore methods of assisting significant others (family, employer, etc.) to understand and to cope in dealing with the alcohol and drug abuse of individuals with substance use disorders. It explores the multigenerational nature of substance use disorders in family systems emphasizing the risk factors for addictive behaviors, the dynamics of dysfunctional families, and the impacts of child abuse and neglect for adult children. Typical values, norms, roles, and beliefs of the family system are covered as well as the common patterns of adaptation are further explored. The dynamics of these relationships will be examined as students develop treatment strategies to assist families and significant others throughout various stages of active addiction, treatment, long-term recovery, and relapse prevention. Family involved approaches will include adolescent drug use issues, codependency, enabling, and Adult Children of Alcoholics (ACA) / Dysfunctional Families with an interdisciplinary perspective. (A, CSU)

#### 7 LAW AND ETHICS

**3 units, 3 lecture hours, pass/no pass**

ADVISOIRES: ADS-1, HS-20 and ENGL-C1000 or ENGL-C1000H.

This course introduces students to those issues associated with the dignity and worth of individual human beings and the protection of fundamental human rights. Professional ethics, clients' rights, confidentiality, and other relevant material related to the field of addictions will be explored. Topics include discussing situations for setting boundaries, and an overview of current federal legislation pertaining to client confidentiality and release of information. (A, CSU)

#### 8 GROUP PROCESS

**3 units, 3 lecture hours, pass/no pass**

PREREQUISITES: ADS-1 and ADS-2. ADVISORIES: ADS-3, ADS-4, ADS-7, HS-24 and ENGL-C1000 or ENGL-C1000H.

This course introduces the major goals, stages, and processes of group counseling in addiction treatment programs. The role, responsibilities, and ethics of the group leader are emphasized along with strategies and techniques for facilitating group processes as a means of changing behavior. The factors involved in problems of communication, effective emotional responses, and personal growth will be highlighted. Students practice and demonstrate competencies through group leadership practice and participation as well as other measurable indicators. (A, CSU)

#### 9 CASE MANAGEMENT & DOCUMENTATION

**3 units, 3 lecture hours, pass/no pass**

PREREQUISITES: ADS-1 and ADS-2. ADVISORIES: ADS-3, ADS-4, ADS-7, HS-24 and ENGL-C1000 or ENGL-C1000H.

This course develops basic competencies in case management strategies for situations common in the addiction treatment setting, with attention to appropriate strategies of intervention, the admission process and documentation of information as it pertains to clients with substance use disorders. Students are trained to screen, assess, and refer, if necessary, clients/patients to services which may apply the following: behavioral health counseling, criminal justice interventions; domestic violence; suicide; sexual abuse; Post Traumatic Stress Disorders; distressed, agitated, or dangerous clients; and other relevant issues that can affect the outcome of successful treatment. The importance of appropriate case management and referral in crisis intervention is covered. (A, CSU)

## 10 FIELD STUDIES SEMINAR

**3 units, 3 lecture hours**

PREREQUISITE: ADS-1, ADS-2, ADS-7, ADS-8, ADS-9, HS-20 and HS-24. COREQUISITE: ADS-11. ADVISORIES: ADS-3, ADS-4, ADS-5, ADS-6, and ENGL-C1000 or ENGL-C1000H.

This course is a study of the nature of the treatment of substance use disorders with an emphasis on developing the skills and abilities of the student-as-intern. Emphasis is placed on supporting students enrolled in an addiction studies internship. Throughout this course, students engage in critical analysis of their strengths and weaknesses as interns, and as potential professionals in the field. Students must be accepted for an internship at an approved substance abuse treatment facility. This course is intended for students only in their final semester of an Addiction Studies Program. (A, CSU)

## 11 FIELD STUDIES SEMINAR-INTERNSHIP

**5 units, 15 lab hours**

PREREQUISITE: ADS-1, ADS-2, ADS-7, ADS-8, ADS-9, HS-20 and HS-24. COREQUISITE: ADS-10. ADVISORIES: ADS-3, ADS-4, ADS-5, ADS-6, and ENGL-C1000 or ENGL-C1000H.

This course offers the student a supervised field experience in a community organization, agency, or institution. The practicum provides students with direct learning experiences in substance use disorder treatment settings. It is designed to provide the student with an opportunity to develop skills that would facilitate gaining employment in the addiction or human services field.

SPECIAL NOTE:

- Students will sign the CATC code of ethics and will be evaluated by facility supervisors.
- A minimum of 250 hours of internship is required for the field studies program.
- Students must fully complete the field studies course regardless of prior experience. This ensures that the students have been properly exposed to the eight TAP 21 competency areas. (A, CSU)

## BIOLOGY (BIOL)

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### 5 HUMAN BIOLOGY

**4 units, 3 lecture hours, 3 lab hours, pass/no pass**

ADVISORIES: ENGL C1000 or ENGL C1000H (Previously ENGL-1A or ENGL-1AH) and Mathematics 103 or Mathematics 4P or Mathematics 3A or Mathematics 5A or equivalent.

This course is an overview of the molecular, genetic, cellular, and systems basis of life with an emphasis on the human body. This course emphasizes the structure of the human body and the functional interrelationships of the body's systems: integumentary, circulatory, digestive, respiratory, urinary, skeletal, muscular, nervous, endocrine, and reproductive. Science literacy and societal issues are also explored.

## HOSPITALITY MANAGEMENT (HSP)

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### 45 TECHNOLOGY IN THE HOSPITALITY INDUSTRY

**3 units, 3 lecture hours, pass/no pass**

Technology in the Hospitality Industry is designed to explore the essential role of technology in enhancing hospitality operations and guest experiences. This course covers the historical evolution and current trends in hospitality technology, with an in-depth focus on key systems such as Property Management Systems (PMS), Point-of-Sale (POS) systems, and Customer Relationship Management (CRM) tools. Students will examine the impact of emerging technologies like artificial intelligence (AI), mobile applications, and social media on the industry. Emphasis is placed on data security, privacy, and the integration of new technologies to optimize business efficiency. Through lectures, case studies, and hands-on projects, students will gain practical insights into leveraging technology for successful hospitality management. (A, CSU)

## 55 HUMAN RESOURCES FOR THE HOSPITALITY INDUSTRY

**3 units, 3 lecture hours**

This course explores the principles and practices of human resource management in the hospitality industry. Emphasizing service leadership, students will gain insights into the role of human resources in fostering a diverse, inclusive, and legally compliant work environment. The course will cover recruitment, training, employee development, employment laws, and operational planning. (A, CSU)

## MATHEMATICS (MATH)

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### 210AL SUPPORT FOR MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS I

**1 unit, 2 activity hours, pass/no pass**

COREQUISITE: MATHEMATICS 10A.

This is a support course for students concurrently enrolled in Math 10A Mathematics for Elementary School Teachers I. This course will offer just-in-time remediation and the topics will vary depending on student needs but may include place value, integers, prime factorization, ratios and proportions, arithmetic operations, patterns, modeling, problem solving, and more.

### 210BL SUPPORT FOR MATHEMATICS FOR ELEMNTARY SCHOOL TEACHERS II

**1 unit, 2 activity hours, pass/no pass**

COREQUISTE: MATHEMATICS 10B.

This is a support course for students concurrently enrolled in Math 10B Mathematics for Elementary School Teachers II. This course will offer just-in-time remediation and the topics will vary depending on student needs but may include expressions, evaluating formulas, unit conversion, angles, polygons, geometric figures, and more.

### 303L SUPPORT FOR COLLEGE ALGEBRA

**0 units, 54 lab hours, pass/no pass**

COREQUISTE: MATHEMATICS 3A

This is a noncredit support course for students concurrently enrolled in Math-3A College Algebra. This course will offer just-in-time remediation and the topics will vary depending on student needs but may include order of operations, solving and graphing equations, solving inequalities, rules of exponents, and more.

### 304L SUPPORT FOR TRIGONOMETRY

**0 units, 3 lab hours, pass/no pass**

COREQUISITE: MATHEMATICS 4A.

This is a noncredit support course for students concurrently enrolled in Math 4A Trigonometry. This course will offer just-in-time remediation and the topics will vary depending on student needs but may include solving equations, manipulating algebraic formulas, transforming algebraic functions, finding inverses of algebraic functions, and more.

### 310AL SUPPORT FOR MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS I

**0 units, 36 activity hours, pass/no pass**

COREQUISITE: MATHEMATICS 10A

This is a noncredit support course for students concurrently enrolled in Math 10A Mathematics for Elementary School Teachers I. This course will offer just-in-time remediation and the topics will vary depending on student needs but may include place value, integers, prime factorization, ratios and proportions, arithmetic operations, patterns, modeling, problem solving, and more.

## 310BL SUPPORT FOR MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS II

**0 units, 36 activity hours, pass/no pass**

COREQUISTE: MATHEMATICS 10B

This is a noncredit support course for students concurrently enrolled in Math 10B Mathematics for Elementary School Teachers II. This course will offer just-in-time remediation and the topics will vary depending on student needs but may include expressions, evaluating formulas, unit conversion, angles, polygons, geometric figures, and more.

## MUSIC (MUS)

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### 45 MARIACHI ENSEMBLE

**1 unit, 4 lab hours, pass/no pass**

LIMITATION OF ENROLLMENT: Own instrument required. PREREQUISITE: Audition required. ADVISORY: Audition required. Students should be at least at the intermediate level on a traditional Mexican instrument. Concurrent enrollment in MUS 27 and MUS 29.

This course examines and celebrates Mariachi music and other Mexican styles such as Son Jarocho and Sierreño. Through study and performance, students develop fundamental and technical musical skills necessary for stylistic performance. They explore the roll of music in Mexican culture and its relation to other arts. Community and college performances required.

## PHYSICAL EDUCATION (PE)

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### 39B COMPETITIVE TRACK AND FIELD

**3 units, 9.5 lab hours, pass/no pass**

This course is designed primarily for students possessing the desire, ability, and skills necessary to compete at the intercollegiate level. Prospective participants should confer with the head coach of the sport before enrollment. A minimum of 9.5 hours participation per week during the season of the sport is required. LIMITATION OF ENROLLMENT: Performance Evaluation. This course is designed for intercollegiate student-athletes only.

### 39C OFF-SEASON CONDITIONING FOR TRACK AND FIELD

**1 unit, 3 lab hours, pass/no pass**

This course is designed for those students who intend on participating in intercollegiate Track and Field.

### 75 HIKING FOR FITNESS,

**1 unit, 3 lab hours, pass/no pass**

Students will learn the fundamental skills necessary for trail hiking including appropriate hiking gear, safety/risks, and trail etiquette. Emphasis will be placed on improving cardiovascular endurance, strength, and flexibility. Students will hike the many trails of Madera and Fresno Counties, gaining information related to specific trail locations, navigation of trail maps, and environmental awareness.

## PUNJABI (PUNJABI)

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### 2 HIGH-BEGINNING PUNJABI

**5 units, 5 lecture hours.**

This is a second-semester course in conversational and written Punjabi. Students will develop grammatical structures, expand their vocabulary, and further develop the language in a cultural context through listening, speaking, reading and writing. Students will acquire a knowledge and an appreciation of the geography, culture, and people of regions where Punjabi is spoken and of Punjabi speakers' contributions to North American and world-wide culture.

# Course Descriptions: Revised and Corrected Courses

*Effective Fall 2025*

## BUSINESS ADMINISTRATION (BA)

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### 23 ELEMENTARY STATISTICS

**4 units, 4 lecture hours. (Formerly STAT-7)**

PREREQUISITES: Intermediate algebra or equivalent. ADVISORIES: English C1000 or C1000H.

This course covers the use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics, probability and sampling distributions, statistical inference, correlation and linear regression, analysis of variance, chi-square and t-tests, and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications will use data from a broad range of disciplines. (A, CSU, UC, CalGETC) (C-ID MATH 110)

*Changed prefix, revised prerequisites*

## COUNSELING (COUN)

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### 34 CAREER AWARENESS

**2 units, 2 lecture hours, pass/no pass**

ADVISORIES: ENGL-C1000 or ENGL-C1000H.

*Updated advisories*

### 53 COLLEGE AND LIFE MANAGEMENT

**3 units, 3 lecture hours, pass/no pass**

This course is designed for first-year college students. It prepares students for college life and academic success. Topics include personal growth and development, academic goal development, campus resources, student success strategies, diversity and cultural awareness, and maintaining a healthy lifestyle.

*Updated advisories and course description.*

## INDUSTRIAL TECHNOLOGY (IT)

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### 31 ELECTRONIC CONTROL SYSTEMS

**4 units, 2 lecture hours, 6 lab hours, pass/no pass**

PREREQUISITES: IT-30. ADVISORIES: ENGL-C1000 or ENGL-C1000H and MATH-4P

*Updated prerequisites and advisories*

### 32 PROCESS CONTROL SYSTEMS

**3 units, 1 lecture hour, 6 lab hours, pass/no pass**

PREREQUISITES: IT-30. ADVISORIES: ENGL-C1000 or ENGL-C1000H and MATH-4P

*Updated prerequisites and advisories*

## LICENSED VOCATIONAL NURSING (LVN)

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- 140    **PHARMACOLOGY**  
      **3 units, 3 lecture hours**  
      COREQUISITES: LVN 100 and LVN 120.  
      *Added corequisite LVN-120.*

## PHYSICAL EDUCATION (PE)

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- 19     **WEIGHT TRAINING AND AEROBICS**  
      **1 unit, 3 lab hours, pass/no pass**  
      ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated advisories*
- 71     **SOCCER**  
      **1 unit, 3 lab hours, pass/no pass**  
      ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated advisories*

## PLANT SCIENCE (PLS)

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- 1       **INTRODUCTION TO PLANT SCIENCE**  
      (C-ID AG - PS 106L PLS 1 + PLS 1L)  
      (C-ID AG - PS 104)  
      *Added C-ID approvals*
- 11      **MACHINERY TECHNOLOGY**  
      **3 units, 2 lecture hours, 3 lab hours**  
      This course covers the principles of machinery management, technology, operation, and maintenance of wheel tractors, farm implements, forklifts, and harvesting equipment. Advanced topics include precision farming, custom farm operations, and corporate farm machinery management.  
      (A, CSU) (C-ID AG -PS 108L)

## PUNJABI (PUNJABI)

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- 1       **BEGINNING PUNJABI**  
      **5 units, 5 lecture hours**  
      ADVISORIES: ENGL- C1000 or ENGL-C1000H  
      This course is an introduction to the language and cultures of the Punjabi-speaking countries and communities. Basic speaking, listening, reading and writing of Punjabi will be introduced and practiced within a cultural framework. The emphasis will be on language as an expression of culture. The course is designed for students who have no knowledge of Punjabi. This course is equivalent to two years of high school Punjabi.  
      *Updated advisories and course description*

## SCIENCE (SCI)

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- 1A     **INTRODUCTORY CHEMICAL AND PHYSICAL SCIENCE**  
      **4 units, 3 lecture hours, 3 lab hours, pass/no pass**  
      PREQUISITE: Math 103 or equivalent or eligibility for transfer level math  
      ADVISORIES: ENGL C1000 or ENGL C1000H  
      *Updated prerequisite and advisories*

## SPEECH LANGUAGE PATHOLOGY ASSISTANT (SLPA)

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- 1A     **INTRODUCTION TO COMMUNICATION DISORDERS**  
      **3 units, 3 lecture hours**  
      ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated advisories*
- 2       **SPEECH, LANGUAGE, AND HEARING DEVELOPMENT**  
      **3 units, 3 lecture hours**  
      PREREQUISITIS: SLPA-1. ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Added prerequisites and updated advisories*
- 3L     **THERAPY ANALYSIS AND FILED OBSERVATION**  
      **3 units, 3 lecture hours, 1 lab hour**  
      ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated advisories*
- 4       **SERVICE DELIVERY**  
      **3 units, 3 lecture hours**  
      ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated advisories*
- 5       **THERAPY MATERIALS AND PROCEDURES**  
      **3 units, 3 lecture hours**  
      ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated advisories*
- 6       **ASSESSMENT AND REMEDIATION**  
      **3 units, 3 lecture hours**  
      ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated advisories*
- 7       **FIELDWORK**  
      **3 units, 1 lecture hour, 6 lab hours**  
      PREREQUISITES SLPA-3L. ADVISORIES: ENGL-C1000 or ENGL-C1000H  
      *Updated prerequisites and advisories.*

# Course Revisions

*Effective Spring 2026*

## BIOLOGY (BIOL)

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### 10L INTRODUCTION TO LIFE SCIENCE LABORATORY

**1 unit, 3 lab hours, pass/no pass**

COREQUISITES: Biology 10. ADVISORIES: ENGL C1000 or ENGL C1000H. ANTI-REQUISITE: BIOL-3.

*Updated advisories, corequisites and anti-requisites.*

### 20 HUMAN ANATOMY

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITES: Biology 5 or Biology 11A. ADVISORIES: English C1000 or English C1000H and Mathematics 103 or Mathematics 4P or Mathematics 3A or Mathematics 5A or equivalent.

*Updated advisories and added Math courses, deleted BIOL-1 from prerequisites.*

## MANUFACTURING (MFGT)

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### 52 MANUFACTURING FABRICATION

**4 units, 2.5 lecture hours, 4.5 lab hours, pass/no pass**

PREREQUISITES: Manufacturing Technology 60 and 80.

*Updated prerequisites and deleted advisories.*

## PHYSICS (PHYS)

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### 2A GENERAL PHYSICS I

**4 units, 3 lecture hours, 3 lab hours**

ADVISORIES: ENGL-C1000 or ENGL-C1000H

*Updated advisories*

### 2B GENERAL PHYSICS II

**4 units, 3 lecture hours, 3 lab hours**

ADVISORIES: ENGL-C1000 or ENGL-C1000H

*Updated advisories*

### 4A PHYSICS FOR SCIENTISTS AND ENGINEERS

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITES: Mathematics 5A. COREQUISITES: Mathematics 5B. ADVISORIES: ENGL C1000 or C1000H.

The topics covered in this course include classical mechanics, properties of matter, gravitation and fluid mechanics from a calculus-based perspective. (A, CSU, UC, CalGETC) (C-ID PHYS 205) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)

*Revised course description, updated advisories.*

## 4B PHYSICS FOR SCIENTISTS AND ENGINEERS

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITES: Physics 4A. COREQUISITES: Mathematics 6. ADVISORIES: ENGL C1000 or C1000H.

This course covers electricity and magnetism: electrostatics, electric potential, DC circuits, magnetic fields, induction, and AC circuits from a calculus-based perspective. Designed primarily for physics, engineering, and related majors. (A, CSU-GE, UC, I) (C-ID PHYS 210) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)

*Revised course description, updated advisories.*

## 4C PHYSICS FOR SCIENTISTS AND ENGINEERS

**4 units, 3 lecture hours, 3 lab hours**

PREREQUISITES: Physics 4A. COREQUISITES: Mathematics 6. ADVISORIES: MATH 17 and ENGL C1000 or C1000H.

This course covers oscillations, waves, thermodynamics, optics, relativity, quantum mechanics, and nuclear physics from a calculus-based perspective. Designed primarily for physics, engineering, and related majors. (A, CSU-GE, UC, I) (C-ID PHYS 215) (C-ID PHYS 200S: PHYS 4A + PHYS 4B + PHYS 4C)

*Revised course description, updated advisories.*

## PLANT SCIENCE (PLS)

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### 2 SOILS

**3 units, 3 lecture hours, pass/no pass**

*Deleted advisories.*

### 2L SOILS LABORATORY

**1 unit, 3 lab hours, pass/no pass**

*Deleted advisories.*

### 3 GENERAL VITICULTURE

**3 units, 2 lecture hours, 3 lab hours**

This course is an introduction to viticultural operations. The class will include vine physiology and structure, climatic requirements, grape varieties, vineyard establishment, vineyard soils, pruning, training, irrigation, pests and diseases. Table, wine, and raisin type grapes will be covered. (A, CSU, UC)

*Revised course descriptions, deleted advisories.*

### 4A TREE AND VINE MANAGEMENT

**3 units, 2 lecture hours**

An introduction to orchard and vineyard management and operations, concentrating on California deciduous trees and vines including peaches, plums, nectarines, apricots, plums, almonds, walnuts, pomegranates, wine grapes, table grapes and raisin grapes. Topics include development of vineyards and orchards, layout, planting, fertilization, irrigation, pruning, and harvest skills. (A, CSU)

*Revised course descriptions, deleted advisories.*

### 5 PRINCIPLES OF IRRIGATION MANAGEMENT

**3 units, 2 lecture hours, 3 lab hours**

*Deleted advisories.*

- 6      **PESTICIDES**  
**3 units, 3 lecture hours, pass/no pass**  
*Deleted advisories.*
- 8      **VEGETABLE PRODUCTION**  
**3 units, 2 lecture hours, 3 lab hours.**  
*Deleted advisories.*
- 9      **BIOMETRICS**  
**3 units, 3 lecture hours**  
**PREREQUISITES:** Intermediate algebra or equivalent.  
This is an introduction to data description, presentation, experimental design, statistical procedures, experimental methods and hypothesis testing with particular emphasis on biological systems. Upon completion of this course, the student will be able to perform basic statistical procedures, including t-tests, ANOVA, linear regression and correlation. Also, students will learn the application of technology for statistical analysis, including interpreting the relevance of statistical findings in real-world agricultural and environmental contexts. (A, CSU, UC, Cal-GETC) (C-ID MATH 110)  
*Updated course description, and advisories.*
- 14     **PLANT NUTRITION**  
**3 units, 3 lecture hours**  
This course will focus on the study of soil, plant, and nutrient relationships. The content will cover the composition, value, selection, and use of fertilizer materials, soil amendments, and cover crops. (A, CSU, UC)  
*Updated course description. Deleted advisories*
- 16     **WINERY SENSORY ANALYSIS AND EVALUATION**  
**3 units, 3 lecture hours**  
**ADVISORIES:** ENGL-C1000 or ENGL-C1000H. (Formerly ENGL-1A or ENGL-1AH)  
In this course students will experience and master sensory analysis specific to wine production with an emphasis on the effects of appearance on taste perception as well as olfactory and tasting transduction mechanisms. (A,CSU)  
**LIMITATION ON ENROLLMENT:** In accordance with CA Assembly Bill 1989 -2015 (Sip and Spit Legislation) students must be 18 years of age and enrolled in an Enology/Viticulture program. Non-major students must be 21 years of age to enroll.  
*Deleted Math advisories and pass/nopPass option. Added limitation on enrollment.*
- 17     **WINERY LABORATORY TECHNIQUES AND EQUIPMENT OPERATION**  
**3 units, 3 lecture hours**  
**ADVISORIES:** ENGL-C1000 or ENGL-C1000H and Intermediate Algebra or equivalent.  
*Updated advisories and deleted pass/no pass option.*
- 18     **INTRODUCTION TO ENOLOGY**  
**3 units, 2 lecture hours, 3 lab hours**  
**ADVISORIES:** ENGL-C1000 or ENGL-C1000H and Intermediate algebra or equivalent.  
In this course students will be introduced to the science of wine making. Topics covered include microbiology, fermentation, sanitation, wine chemistry and stabilization. (A, CSU, UC)  
**LIMITATION ON ENROLLMENT:** In accordance with CA Assembly Bill 1989-2015 (Sip and Spit Legislation) students must be 18 years of age and enrolled in an Enology/Viticulture program. Non-major students must be 21 years of age to enroll.

# Associate Degrees for Transfer and Certificate Programs

*(Pages from 64-125 of the 2025 -2026 catalog)*

## **CORRECTION TO PROGRAMS**

*Effective Fall 2025*

### **ART HISTORY (MAJOR # M.5204.AA-T) ASSOCIATE IN ARTS FOR TRANSFER**

*Courses deleted from program*

*AGBS-2, ANTHRO-1, ANTHRO-2, ANTHRO-3, ECON-1A, ECON-1B, ETHNST-5, ETHNST-32, HIST-5, HIST-32, SOC-32*

### **GENERAL MUSIC (MAJOR #M.5810.CA) CERTIFICATE OF ACHIEVEMENT**

*Courses added to program*

*MUS-12H, MUS-20, MUS-21, MUS-22, MUS-25, MUS-28, MUS-37, MUS-45*

### **HISTORY (MAJOR # M.7340.AA-T) ASSOCIATE IN ARTS FOR TRANSFER**

*Courses deleted*

*ANTHRO-2*

### **LIBERAL ARTS & SCIENCES: NATURAL SCIENCE (MAJOR #M.5130.AA) ASSOCIATE IN ARTS**

*Courses deleted*

*ANTHRO-1*

### **MATHEMATICS (MAJOR #M.6201.AS-T) ASSOCIATE IN SCIENCE FOR TRANSFER**

*Courses added*

*BA-23*

**MUSIC (MAJOR # M.5813.AA)**

**ASSOCIATE IN ARTS**

*Courses added*

MUS-45

**MUSIC (MAJOR #M.5812.AA-T)**

**ASSOCIATE IN ARTS FOR TRANSFER**

*Courses added*

MUS-12H, MUS-22

**POLITICAL SCIENCE (MAJOR #M.7450.AA-T)**

**ASSOCIATE IN ARTS FOR TRANSFER**

*Courses added*

PSYC-42, ETHNST-2

*Courses deleted*

HIST-1, HIST-2, HIST-20

**SOCIAL SCIENCE (MAJOR #M.7410.AA)**

**ASSOCIATE IN ARTS**

*Courses deleted*

ANTHRO-1, ANTRHO-2, ANTHRO-3

**SOCIOLOGY (MAJOR # M.7611.AA-T)**

**ASSOCIATE IN ARTS FOR TRANSFER**

*Courses deleted*

ANTHRO-2

**SPANISH (MAJOR # M.5550.AA-T)**

**ASSOCIATE IN ARTS FOR TRANSFER**

*Courses deleted*

ANTHRO-2

**VOCAL PERFORMANCE (MAJOR #M.5813.CA)**

**CERTIFICATE OF ACHIEVEMENT**

*Courses added*

MUS-12H, MUS-16, MUS-16B, MUS-17

## **INDUSTRIAL MAINTENANCE TECHNICIAN (MAJOR # M.3040.CA)**

### **CERTIFICATE OF ACHIEVEMENT**

#### *Program Learning Outcomes*

Upon completing this program students will:

- Combine basic theoretical knowledge and understanding of the industrial maintenance field and practical laboratory experience to set up and repair industrial equipment.
- Employ a systematic approach to troubleshooting industrial system malfunctions and prepare an effective repair solution.
- Demonstrate effective communication and employability skills in the workplace.
- Demonstrate the proper use of safety equipment, devices, and procedures in classroom and lab environments.
- Perform corrective and preventive maintenance procedures on industrial equipment.

<b>Required Courses</b>	<b>Units</b>
IT-10 - Maintenance Operations	3
IT-11 - Basic Mechanical Systems	3
IT-22 – Fluid Power Systems	4
IT-30 - Electrical Systems	4
IT-31 - Electronic Control Systems	4
IT-32 - Process Control Systems	3
IT-60 – Maintenance Welding	3
IT-61 - Maintenance Piping and Pumps	3
IT-19 - Work Experience Education - Industrial Technology	2

Total Credits 29

The student successfully completing this program will have the industry-recognized skills needed for a career in industrial maintenance. The student will be ready for workforce employment in the following areas: maintenance operations, mechanical and fluid power systems, electrical and electronic control systems, process control systems, repair welding, and piping systems.

*Deleted MFGT-19 and added IT-19*

## **INDUSTRIAL MAINTENANCE TECHNICIAN (MAJOR #M.3040.AS)**

### **ASSOCIATE OF SCIENCE**

#### *Program Learning Outcomes*

Upon completing this program students will:

- Combine basic theoretical knowledge and understanding of the industrial maintenance field and practical laboratory experience to set up and repair industrial equipment.
- Employ a systematic approach to troubleshooting industrial system malfunctions and prepare effective repair solutions.
- Demonstrate effective communication and employability skills in the workplace.
- Demonstrate the proper use of safety equipment, devices, and procedures in classroom and lab environments.
- Perform corrective and preventive maintenance procedures on industrial equipment.

Course Name	Units
<b>Required Courses</b>	
IT-10 - Maintenance Operations	3
IT-11 - Basic Mechanical Systems	3
IT-22 – Fluid Power Systems	4
IT-30 - Electrical Systems	4
IT-31 - Electronic Control Systems	4
IT-32 - Process Control Systems	3
IT-60 – Maintenance Welding	3
IT-61 - Maintenance Piping and Pumps	3
IT-19 - Work Experience Education - Industrial Technology	2

Total Units for the Major 29

Students successfully completing this program will have the industry-recognized skills needed for a career in industrial maintenance. They will be ready for workforce employment in the following areas: maintenance operations, mechanical and fluid power systems, electrical and electronic control systems, process control, repair welding, and piping systems.

Requires:

- (1) Completion of major requirements for the degree. Students must earn a “C” or better in all courses required for the major. A “P” (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.
- (2) Completion of one of the following general education patterns:
  - a. Madera Community College General Education
  - b. California General Education Transfer Curriculum (CalGETC)
- (3) Completion of 60 degree-applicable units with an overall GPA of at least 2.0.

*Deleted MFGT-19 and added IT-19*

## **KINESIOLOGY (MAJOR #M.1270.AA-T) ASSOCIATE IN ARTS FOR TRANSFER**

### *Program Learning Outcomes*

Upon completing this program students will:

- Plan, implement, practice, and measure appropriate fitness activities that promote improved levels of muscular strength and endurance, cardiorespiratory endurance, flexibility, and body composition.
- Acquire skills and/or knowledge of skill sets, demonstrate basic knowledge of rules and/or terminology, and identify necessary equipment for specific physical activities.
- Recognize the relationship between physical activity and physical wellness.
- Recognize the impact physical activity has on cognitive functioning and/or emotional wellness.
- Recognize the social and financial implications of inadequate physical activity.
- Demonstrate oral and written communication that meets appropriate professional and scientific standards in kinesiology.

<b>Required Core (15 Units)</b>	<b>Units</b>
BIOL-20 - Human Anatomy	4
BIOL-22 - Human Physiology	5
KINES-22 - Introduction to Kinesiology	3

<b>Required Core: Movement Based Course</b> <b>Select a maximum of one (1) course from any three (3) of the following areas for a minimum of three units: Aquatics, Combatives, Team Sports, Individual Sports, Fitness, Dance</b> <b>Select one FITNESS activity classes</b>	3 units
PE-2 - Aerobics (Dance, Step or Water)	1
PE-6 - Fitness and Health	1
PE-7 - Golf	1
PE-14 - Volleyball	1
PE-15 - Weight Training	1
PE-16 - Fitness Walking	1
PE-19 - Weight Training and Aerobics	1
PE-27 – High Intensity Interval Training	1
PE-29 - Yoga	1
<b>OR Select one TEAM SPORT activity classes</b>	
PE-14 - Volleyball	1
PE-71 – Soccer	1
PE-7 - Golf	1
<b>OR Select one INDIVIDUAL SPORT activity classes</b>	
PE-7 - Golf	1
PE-15 - Weight Training	1
PE-16 - Fitness Walking	1
<b>OR Select one AQUATICS activity classes</b>	
PE-2 - Aerobics (Dance, Step or Water)	1
<b>OR Select one DANCE activity classes</b>	
PE-2 - Aerobics (Dance, Step or Water)	1
<b>List A: Select two courses from the following (6-9 units)</b>	6-9
CHEM-1A - General Chemistry	5
HLTH-2 - First Aid and Safety	3
STAT-7- Elementary Statistics	4
STAT-C1000 – Introduction to Statistics	4
PSYC-42 Statistics for Behavioral Sciences	4
PLS-9 Biometrics	3
PHYS-2A - General Physics I	4
PHYS-4A - Physics for Scientists and Engineers	4
PSYC-C1000 Introduction to Psychology Or PSYC-C1000 H Introduction to Psychology Honors	3
SOC-1A Introduction to Sociology	3

Total Credits 21-24

The Associate in Arts in Kinesiology Transfer Degree prepares students for transfer into four-year kinesiology programs. A diverse field of academic study and practical application in kinesiology allows students to pursue studies in fields such as kinesiology/physical education credential programs, exercise science, athletic training/sports medicine, and sports administration.

Requires:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - a. The California General Education Transfer Curriculum (Cal-GETC) for a minimum of 34 units.
  - b. The courses required for the major as detailed in the Program Requirements section. (Every major will require a minimum of 18 units).
- (2) Obtainment of a minimum grade point average of 2.0. The law authorizing these degrees also requires that students must earn a "C" or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

*Courses added PE-27, PE-71, PE-7, PSYC-42, PLS-9, PSYC-C1000, PSYC-C1000H, SOC-1A, Course deleted BIOL-5*

## **MUSIC (MAJOR #M.5813.AA) ASSOCIATE IN ARTS DEGREE**

### *Program Learning Outcomes*

Upon completing this program students will:

- Perform on the primary instrument, music from different eras and world music literature.
- Audiate, analyze, read, and write music.
- Distinguish historical and world music styles.

This program satisfies the requirements for the Associate of Arts degree with a major in music, and the lower division course requirements at most California State Universities. Music majors must select one of the following areas of specialization: vocal, guitar, or piano. These majors must also take the appropriate Applied Music classes or Intermediate/Advanced Level applied class in their selected area and participate in at least one Large Ensemble every semester they are enrolled in the Music Major.

Requires:

- (1) Completion of major requirements for the degree. Students must earn a "C" or better in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.
- (2) Completion of one of the following general education patterns:
  - a. Madera Community College General Education
  - b. California General Education Transfer Curriculum (CalGETC)
- (3) Completion of 60 degree-applicable units with an overall GPA of at least 2.0.

<b>Required Core</b>	<b>19</b>
MUS 1A – Music Theory	3
MUS 1B – Music Theory II	3
MUS 2A – Music Theory III	3
MUS 2B – Music Theory IV	3
MUS 7A – Ear Training I	1
MUS 7B – Ear Training II	1
MUS 7C – Ear Training III	1
MUS 7D – Ear Training IV	1
MUS 12 – Music Appreciation Or MUS 12 – Honors Music Appreciation	3

<b>Applied Music: Select 4 Units in Your Primary Instrument</b>	<b>4</b>
MUS 22 – Intermediate/Advanced Piano	2
MUS 26 – Intermediate/Advanced Voice	1-2
MUS 29 – Intermediate/Advanced Guitar	1-2
MUS 81 – Applied Music Masterclass and Lessons	1
<b>Large Ensembles</b>	<b>4</b>
MUS 31 – Concert Choir	1
MUS 33 – Chamber Choir	1
<b>Piano Proficiency</b>	<b>2</b>
MUS 20 – Beginning Piano: Level I	2
MUS 21 – Beginning Piano: Level II	2
<b>Electives: Any MUS Offerings Acceptable that are Not Applied in Another Area</b>	<b>6</b>
MUS 16 – History of Jazz	3
MUS 17 – History of Rock and Roll	3
MUS 16B – History of Musical Theatre	3
MUS 37 – Piano and Guitar Ensemble	1
MUS 38 – Musical Theatre Practicum	1
MUS 45 – Mariachi Ensemble	1

Total Units for the Major 35

Advisor: Murphy

## **SOCIOLOGY (MAJOR #M.7611.AA-T)**

### **ASSOCIATE OF ARTS TRANSFER DEGREE**

#### *Program Learning Outcomes*

Upon completing this program students will:

- Prepare students with the knowledge and skills required to succeed in the study of sociology.
- Provide students with the skills for critical thinking and perceptive reading.
- Provide students with the skills for sociological analysis.

<b>Required Core</b>	<b>10</b>
SOC-1A Introduction to Sociology	3
SOC-1B Critical Thinking about Social Problems	3
PSYC-42 Statistics for the Behavioral Sciences	4
STAT-C1000 Introduction to Statistics	4
STAT-7 Elementary Statistics	4

<b>List A: Select two courses from the list below</b>	<b>6</b>
SOC-2 American Minority Groups Or ETHNST-2 American Minority Groups	3
SOC-11 Sociology of Gender	3
SOC-17 Crime and Deviance Or CRIM-17 Crime and Deviance	3
SOC-32 Courtship, Marriage, and Divorce: Family & Interpersonal Relationships	3
PSYC-5 Social Psychology	3
PSYC-45 Introduction to Research Methods in Psychology	3
<b>List B: Select a course from the list below</b>	
<i>Any List A course not selected above</i>	3
SOC-3-Introduction to Social Justice	3
PSYC-C1000 Introduction to Psychology Or PSYC-C1000H Introduction to Psychology - Honors	3

Total Credits 19

Sociology is the scientific study of human society and social interaction. The sociological perspective is a powerful tool to critically analyze and understand contemporary society at the local, regional, national, and global levels. Sociology focuses on social interactions as well as large-scale social institutions such as economy, politics, education, mass media, religion, and the criminal justice system. Sociology's subject matter ranges from the intimate family setting to the large impersonal organization, from the world of work to the world of sport, from social divisions of class, race, and gender to cultural bonds based on shared values and traditions.

Sociology emphasizes how individual behavior is influenced by the structure of society and how individual behavior can influence the structure of society. All sociology classes emphasize multicultural and gender issues.

A sociology major usually transfers to a four-year institution to complete a Bachelor's Degree. Because of the broad scope of subject matter, sociology is excellent preparation for a wide range of career paths, including teaching, journalism, law, business, communications, nonprofit management, corrections/law enforcement, social work, counseling, urban planning, public service, and politics.

Requires:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
  - a. The California General Education Transfer Curriculum (Cal-GETC) for a minimum of 34 units.
  - b. The courses required for the major as detailed in the Program Requirements section. (Every major will require a minimum of 18 units).
- (2) Obtainment of a minimum grade point average of 2.0. The law authorizing these degrees also requires that students must earn a "C" or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.

*Courses added CRIM-17, SOC-17, SOC-3, ETHNST-2*

# NEW PROGRAMS

Effective Fall 2025

## ADDICTION AND DRUG STUDIES (MAJOR # M.3100.AS) ASSOCIATE OF SCIENCE DEGREE

### Program Learning Outcomes

- Compare and contrast the efficacy of various assessment tools, motivational strategies, and substance abuse treatment approaches including treatment plans and charting protocols.
- Describe the importance of cultural competence and how it relates to becoming an effective addiction counselor.
- Demonstrate basic listening skills in one-on-one counseling and group counseling.
- Discuss the legal and ethical issues that workers may encounter in the addiction treatment field.
- Explain how addiction affects family systems.

<b>Required Core Courses</b>	<b>38</b>
ADS-1 Introduction to Addiction Studies	3
ADS-2 Pharmacology of Psychoactive Drugs of Abuse	3
ADS-3 Prevention, Intervention, Treatment & Recovery	3
ADS-4 Co-Occurring Disorders	3
ADS-5 Diverse Populations	3
ADS-6 Family Dynamics of Addiction	3
ADS-7 Law & Ethics	3
ADS-8 Group Process	3
ADS-9 Case Management & Documentation	3
ADS-10 Field Studies Seminar	3
ADS-11 Field Studies & Seminar - Internship	5
HS-24 Interviewing and Counseling	3
<b>Select from one of the Behavioral Courses</b>	<b>3</b>
HS-20 Introduction to Social Welfare	3
PSYC-C1000 Introduction to Psychology Or PSYC-C1000H Introduction to Psychology – Honors	3
SOC-1A Introduction to Sociology	3

Total Credits 41

The addiction and drug studies program provides the core theory and skills curriculum based on conceptual, attitudinal, and skills competencies which provide students with knowledge and understanding required of addictions counselors. The program is designed to help students develop the competencies outlined in the federal guidelines, Technical Assistance Publication Number 21 (TAP 21), "Addiction Counseling Competencies: The Knowledge, Skills, and Attitudes of Professional Practice."

Upon completing this degree, a student may apply for any of the state recognized professional credentials offered by the following organizations: California Association of Alcoholism and Drug Abuse Counselors (CAADAC), California Association of Alcohol and Drug Educators (CAADE), and the California Association of Addiction Recovery Resources (CAARR). Each of these credentials has additional testing and/or field practicum hours required, but all the educational coursework is completed when students complete this degree.

Requires:

- (1) Completion of major requirements for the degree. Students must earn a "C" or better in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.
- (2) Completion of one of the following general education patterns:
  - a. Madera Community College General Education
  - b. California State GE Transfer Curriculum (CalGETC)
- (3) Completion of 60 degree-applicable units with an overall GPA of at least 2.0.

## **CALGETC (MAJOR # M.5901.CA) CERTIFICATE OF ACHIEVEMENT**

### *Program Learning Outcomes*

- Evaluate and apply a global understanding of the following academic disciplines: natural sciences, social sciences, mathematics, humanities, and visual and performing arts. Measurement would be completion of a minimum 12 courses within the Cal-GETC pattern from the following areas: English Composition, Mathematical Concepts and Quantitative Reasoning, Arts and Humanities, Social and Behavioral Sciences, Physical and Biological Sciences, and Ethnic Studies.

Course Name	Units
<b>AREA 1 – ENGLISH COMPOSITION (9 semester units minimum)</b> <b>Three courses, one each from 1A,1B and 1C</b>	<b>9</b>
<b>1A – English Composition (3 semester units minimum):</b>	
ENGL- C1000- Academic Reading and Writing Or ENGL- C1000H- Academic Reading and Writing - Honors	4
ESL 1A – College Composition for ESL Students	4
<b>1B – Critical Thinking – English Composition (3 semester units minimum):</b>	
COMM-25 – Argumentation	3
ENGL-2 - Critical Reading and Writing through Literature Or ENGL-2H Honors Critical Reading and Writing through Literature	3
ENGL- C1001- Critical Thinking and Writing Or ENGL- C1001H– Critical Thinking and Writing - Honors	3
PHIL-2 - Critical Reasoning and Analytic Writing	3
<b>1C - Oral Communication (3 semester units minimum):</b>	
COMM- C1000 – Introduction to Public Speaking Or COMM C1000H – Introduction to Public Speaking - Honors	3

<b>AREA 2 – MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING One Course (3 semester units minimum)</b>	<b>3</b>
BA-39 - Finite Mathematics for Business	3
CSCI-26 - Discrete Mathematics for Computer Science	4
MATH-3A - College Algebra	4
MATH-4P – Mathematics for College Students	4
MATH-5A – Calculus I	5
MATH-5B – Calculus II	4
MATH-6 - Calculus III	5
MATH-17 - Differential Equations and Linear Algebra	5
MATH-21 – Finite Mathematics	3
PLS-9 – Biometrics	3
PSYC-42 – Statistics for Behavioral Sciences	4
STAT- C1000 - Introduction to Statistics	4
STAT-7 – Introduction to Statistics	4
<b>AREA 3 – ARTS AND HUMANITIES Two courses with at least one from the Arts and one from Humanities (6 semester units minimum)</b>	<b>6</b>
<b>3A: ARTS</b>	
ART-2 - Introduction to Visual Culture	3
ART-5 - Art History 1	3
ART-6 - Art History 2 Or ART-6H - Honors Art History 2	3
ART-26 – Arts of Africa, Oceania, Indigenous North America, and Pre-Columbian Americas	3
FILM-1 - Introduction to Film Studies	3
FILM-2A - History of Cinema: 1895-1960	3
FILM-2B - History of Cinema: 1960 to present	3
MUS-12 - Music Appreciation Or MUS-12H Honors Music Appreciation	3
MUS-16 - Jazz History and Appreciation	3
<b>3B: HUMANITIES</b>	
ASL-2 - High-Beginning American Sign Language	4
ASL-3 - Intermediate American Sign Language	4
ASL-4 - High-Intermediate American Sign Language	4
ASL-5 – Deaf Culture	3
ENGL-1B - Introduction to the Study of Literature Or ENGL-1BH - Honors Introduction to the Study of Literature	3
ENGL 17 – African American Literature	3

ENGL-36 – Women's Literature	3
ENGL-43A - American Literature: Origins through Reconstruction (1877)	3
ENGL-43B - American Literature: 1877 to present	3
ENGL-44A - World Literature to the Renaissance	3
ENGL-44B - World Literature since the Renaissance	3
ENGL-46A - English Literature to 1800	3
ENGL-46B - English Literature from 1800 to the Present	3
ENGL-47 - Shakespeare	3
ENGL-49 - Latino & Chicano Literature	3
FILM-2A - History of Cinema: 1895-1960	3
FILM-2B - History of Cinema: 1960 to present	3
HIST-1 - Western Civilization to 1648	3
HIST-2 - Western Civilization from 1648	3
HIST-11 - History of the United States to 1877	3
HIST-12 - History of the United States since 1865 Or HIST-12H Honors History of the United States since 1865	3
HIST-20 - World History I, to 1600	3
HIST-22 - History of American Women	3
LING-10 - Introduction to Language	3
PHIL-1 - Introduction to Philosophy	3
PHIL-1C - Ethics Or PHIL-1CH – Honors Ethics	3
PHIL-1D - World Religions	3
PHIL-3A – History of Ancient Philosophy	3
PHIL-3B – History of Modern Philosophy	3
SPAN-2 - High-Beginning Spanish	5
SPAN-3 - Intermediate Spanish	5
SPAN-3NS - Spanish for Spanish Speakers	5
SPAN-4 - High-Intermediate Spanish	5
SPAN-4NS - Spanish for Spanish Speakers	5
SPAN-5 - The Short Story: Mexico, Spain, and the U.S.	4
<b>AREA 4 – SOCIAL AND BEHAVIORAL SCIENCES Two courses from at least two different disciplines (6 semester units minimum)</b>	<b>6</b>
ASL-5 – Deaf Culture	3
CHDEV-30 – Child, Family, and Community	3
CHDEV-38 - Lifespan Development	3
CHDEV-39 - Child Growth and Development	3
COMM-10 - Intercultural Communication	3

CRIM-13 – The Constitution and Your Individual Rights	3
CRIM-14 – Multicultural Issues within Public Safety	3
ECON-1A - Principles of Macroeconomics	3
ECON-1B - Principles of Microeconomics	3
ETHNST-2 – American Minority Groups	3
ETHNST 3 – Introduction to Latino/a/x Studies	3
ETHNST-5 - African People in the New World	3
ETHNST 15 – Introduction to Asian American Studies	3
ETHNST-32 - History of the Mexican American People	3
GEOG-6 - World Regional Geography	3
HIST-5 - African People in the New World	3
HIST-11 - History of the United States to 1877	3
HIST-12 - History of the United States since 1865 Or HIST-12H Honors History of the United States since 1865	3
HIST-22 - History of American Women	3
HIST-32 - History of the Mexican American People	3
HS-20 - Introduction to Social Welfare	3
JOURN-1 - Introduction to Mass Communications	3
POLS- C1000 - American Government and Politics Or POLS- C1000H– American Government and Politics - Honors	3
POLS-3 - Introduction to Political Theory and Thought	3
POLS-5 - Comparative Government	3
POLS-24 - International Relations	3
PSYC- C1000 - Introduction to Psychology Or PSYC- C1000H – Introduction to Psychology - Honors	3
PSYC-5 - Social Psychology	3
PSYC-16 - Abnormal Psychology	3
PSYC-17 – Psychology of Prejudice	3
PSYC-25 – Human Sexuality	3
PSYC-38 - Lifespan Development	3
PSYC-45 - Introduction to Research Methods in Psychology	3
SOC-1A - Introduction to Sociology	3
SOC-1B - Critical Thinking about Social Problems	3
SOC-2 - American Minority Groups	3
SOC-11 – Sociology of Gender	3
SOC-32 – Courtship, Marriage, and Divorce: Family & Interpersonal Relationships	3

<b>AREA 5 – PHYSICAL AND BIOLOGICAL SCIENCES</b> Two courses, one 5A Physical Science course and one 5B Biological Science course; at least one must include a laboratory (7 semester units minimum)	7
<b>5A: PHYSICAL SCIENCE</b>	
ASTRO-10 - Introduction to Astronomy	4
CHEM-1A - General Chemistry	5
CHEM-1B - General Chemistry and Qualitative Analysis	5
CHEM-3A - Introductory General Chemistry	4
CHEM-3B - Introductory Organic and Biological Chemistry	4
CHEM-8 - Elementary Organic Chemistry	3
CHEM-9 - Elementary Organic Chemistry Laboratory	3
CHEM-10 - Elementary Chemistry	4
CHEM-28A - Organic Chemistry I	3
CHEM-28B - Organic Chemistry II	3
GEOG-5 - Physical Geography: Environmental Conditions	3
GEOG-9 - Physical Geography: Land Formation	3
GEOL-1 - Physical Geology	4
GEOL-2 - Historical Geology	3
GEOL-9 - Introduction to Earth Science	4
GEOL-10 - Rocks, Fossils, and Minerals	3
PHYS-2A - General Physics I	4
PHYS-2B - General Physics II	4
PHYS-4A - Physics for Scientists and Engineers	4
PHYS-4B - Physics for Scientists and Engineers	4
PHYS-4C - Physics for Scientists and Engineers	4
PLS-2 - Soils	3
SCI-1A - Introductory Chemical and Physical Science	4
<b>5B: BIOLOGICAL SCIENCE</b>	
AS-1 – Introduction to Animal Science	3
BIOL-1 - Principles of Biology	4
BIOL-2 - Environmental Science	4
BIOL-5 - Human Biology	4
BIOL-10 - Introduction to Life Science Lecture	3
BIOL-11A - Biology for Science Majors I	5
BIOL-11B - Biology for Science Majors II	5
BIOL-16 – Plant Biology	3
BIOL-20 - Human Anatomy	4
BIOL-22 - Human Physiology	5
BIOL-31 - Microbiology	5

NR-7 - Conservation of Natural Resources	3
PLS-1 - Introduction to Plant Science	3
<b>5C. Laboratory Activity – Any course from 5A or 5B with a laboratory component or select from the following:</b>	
BIOL-10L - Introduction to Life Science Lab	1
CHEM-9 - Elementary Organic Chemistry Laboratory	3
CHEM-29A - Organic Chemistry Laboratory I	2
CHEM-29B - Organic Chemistry Laboratory II	2
PLS-1L - Introduction to Plant Science Laboratory	1
PLS-2L – Soils Laboratory	1
<b>AREA 6 – ETHNIC STUDIES Select one course (3 semester units minimum)</b>	<b>3</b>
ETHNST-2 – American Minority Groups	3
SOC-2 – American Minority Groups	3

Total Credits 34

The general education or breadth requirements are designed to give CSU/UC undergraduates a broad background in all major academic disciplines — natural sciences, physical sciences, social sciences, mathematics, humanities and visual and performing arts. This certificate fulfills lower-division general education requirements necessary for transfer and admission to both the California State University (CSU) and the University of California (UC). This certificate also fulfills the general education requirement for students at Madera Community College seeking to complete their Associate of Arts or Associates of Science degree.

NOTE: This Certificate of Achievement will allow the student to complete the lower division general education required courses but does not meet all the requirements for transfer. A course or sequence of courses used to satisfy a requirement in one area may not be used to satisfy a requirement in another area. Students should check with a counselor and review the college catalog for further clarification.

All courses must be completed with a “C” or better. Courses must be on the college’s approved Cal-GETC list at the time the course is completed. Students should check with a counselor and review the college catalog for further clarification.

**MODERN POLICING (MAJOR # M.8882.AS)**  
**ASSOCIATE IN SCIENCE**

*Program Learning Outcomes*

Upon completing this program students will:

- Build cultural competence by prioritizing equity mindedness
- Apply critical analysis to resolve emotionally charged situations
- Model resiliency in problem solving approaches
- Demonstrate effective communication skills to promote community cooperation

<b>Required Courses</b>	<b>37</b>
CRIM-1 Introduction to Criminology	3
CRIM-5 Community Relations	3
CRIM-6 Criminal Law	3
CRIM-15 Introduction to Police Ethics	3
ART-26 Arts of Africa, Oceania, Indigenous North America and Pre-Columbian Americas	3
COMM-C1000 Introduction to Public Speaking Or COMM-C1000H Introduction to Public Speaking-Honors	3
COMM-10 Intercultural Communication	3
ENGL-C1000 Academic Reading and Writing Or ENGL-C1000H Academic Reading and Writing - Honors	4
ENGL-C1001 Critical Thinking and Writing Or ENGL-C1001H Critical Thinking and Writing - Honors	3
PHIL-1C Ethics	3
PSYC-5 Social Psychology	3
SOC-3 Introduction to Social Justice	3
<b>Choose 1 course from the list below</b>	<b>3</b>
CRIM-3 Legal Aspects of Evidence	3
CRIM-4 Principles and Procedures of the Justice System	3
CRIM-4 Principles and Procedures of the Justice System	3
CRIM-11 Juvenile Delinquency	3
<b>Choose 1 course from the list below</b>	<b>4</b>
PSYC-42 Statistics for the Behavioral Sciences	4
STAT-C1000 Introduction to Statistics	4

<b>Choose 1 course from the list below</b>	<b>3</b>
CHDEV-30 Child, Family, and Community	3
CRIM-17 Crime and Deviance Or SOC-17 Crime and Deviance	3

Total Units for the Major 47

The Modern Policing degree is the foundational program that provides students the preparation for Peace Officer Standards and Training (POST). The degree focuses on courses pertinent to law enforcement and to create a fully rounded student by developing the necessary critical thinking and emotional intelligence skills.

This program meets AB 89 that requires students to complete this degree prior to obtaining a POST Basic Certificate.

Requires:

- (1) Completion of major requirements for the degree. Students must earn a "C" or better in all courses required for the major. A "P" (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.
- (2) Completion of one of the following general education patterns:
  - a. Madera Community College General Education
  - b. California State GE Transfer Curriculum (CalGETC)
- (3) Completion of 60 degree-applicable units with an overall GPA of at least 2.0.